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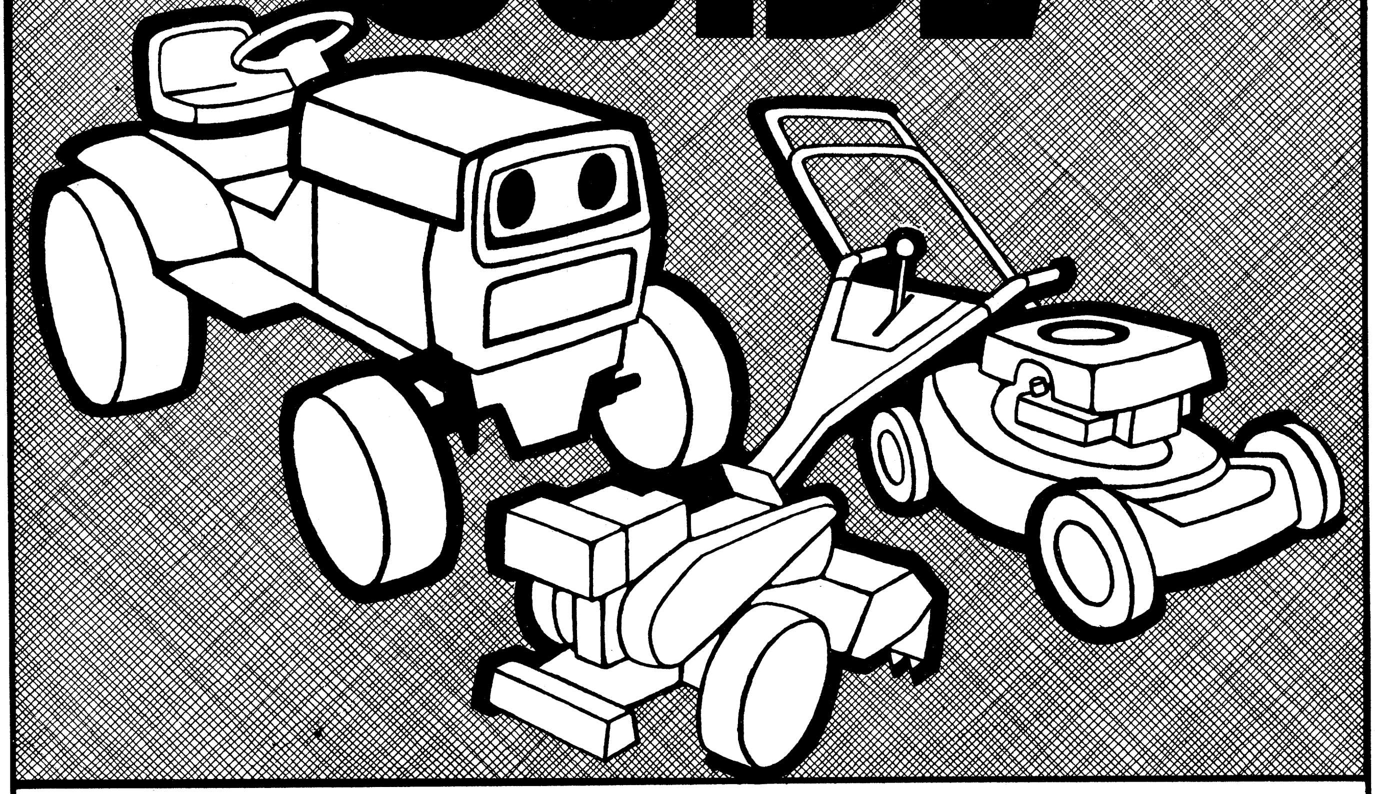
OWNER'S GUIDE



ASSEMBLY • OPERATION • MAINTENANCE • PARTS

26" RIDING MOWERS

Important:

Read Safety Rules and Instructions Carefully

Thank you for purchasing an
American built product.

Model Numbers
131-525A
131-526A

PRINTED IN U.S.A.

FORM NO. 770-0864

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LIMITED WARRANTY

For one year from the date of original retail purchase, MTD PRODUCTS INC will either repair or replace, at its option, free of charge, F.O.B. factory or authorized service firm, any part or parts found to be defective in material or workmanship. Transportation charges for any parts submitted for replacement under this warranty must be paid by the purchaser unless such return is requested by MTD PRODUCTS INC.

This warranty will not apply to any part which has become inoperative due to misuse, excessive use, accident, neglect, improper maintenance, alterations, or unless the unit has been operated and maintained in accordance with the instructions furnished. This warranty does not apply to the engine, motor, battery, battery charger or component parts thereof. Please refer to the applicable manufacturer's warranty on these items.

This warranty will not apply where the unit has been used commercially.

Warranty service is available through your local authorized service dealer or distributor. If you do not know the dealer or distributor in your area, please write to the Customer Service Department of MTD.

The return of a complete unit will not be accepted by the factory unless prior written permission has been extended by MTD.

This warranty gives you specific legal rights. You may also have other rights which vary from state to state.

WARNING

TO PURCHASERS OF INTERNAL COMBUSTION ENGINE EQUIPPED MACHINERY OR DEVICES IN THE STATE OF CALIFORNIA

The equipment which you have just purchased does not have a spark arrester. If this equipment is used on any forest covered land, brush covered land, or grass covered unimproved land in the State of California, before using on such land, the California law requires that a spark arrester be provided. In addition, spark arrester is required by law to be in effective working order. The spark arrester must be attached to the exhaust system and comply with Section 4442 of the California Public Resources Code.

WARNING

To reduce the potential for any injury, comply with the following safety instructions. Failure to comply with the instructions may result in personal injury.

SAFE OPERATION PRACTICES FOR RIDING VEHICLES

1. It is suggested that this manual be read in its entirety before attempting to assemble or operate this unit. Keep this manual in a safe place for future reference and for ordering replacement parts.
2. This unit is a precision piece of power equipment, not a plaything. Therefore exercise extreme caution at all times.
3. Know the controls and how to stop quickly—READ THIS OWNER'S MANUAL.
4. Do not allow children to operate vehicle. Do not allow adults to operate it without proper instruction. Only persons well acquainted with these rules of safe operation should be allowed to use your mower.
5. Do not carry passengers.
6. Keep the area of operation clear of all persons, particularly small children and pets. Stop engine when they are in the vicinity of your mower. Although the area of operation should be completely cleared of foreign objects, a small object may have been overlooked and could be accidently thrown by the mower in any direction and cause injury.
7. Clear work area of objects which might be picked up and thrown by the mower in any direction and cause injury.
8. Stop the blade(s) when crossing gravel drives, walks or roads.
9. Disengage all attachment clutches and shift into neutral before attempting to start engine.
10. Disengage power to attachment(s) and stop engine before leaving operating position.
11. Do not put hands or feet near or under rotating parts. Keep clear of the discharge opening at all times as the rotating blade(s) can cause injury.
12. Disengage power to attachment(s) and stop engine before making any repairs or adjustments. Disconnect the spark plug wire and keep the wire away from the plug to prevent accidental starting.
13. Before attempting to unclog the mower or discharge chute, stop the engine. The mower blade(s) may continue to rotate for a few seconds after the engine is shut off. Therefore, be sure the blade(s) have stopped completely. Disconnect the spark plug wire and keep the wire away from the plug to prevent accidental starting.
14. Disengage power to attachment(s) when transporting or not in use.
15. Take all possible precautions when leaving vehicle unattended such as disengaging power-take-off, lowering attachments, shifting into neutral, setting parking brake, stopping engine and removing key.
16. Do not stop or start suddenly when going uphill or downhill. Mow up and down face of steep slopes; never across the face.
17. Reduce speed on slopes and in sharp turns to prevent tipping or loss of control. Exercise extreme caution when changing direction on slopes.
18. Stay alert for holes in terrain and other hidden hazards.
19. Use care when pulling loads or using heavy equipment.
    - A. Use only approved drawbar hitch points.
    - B. Limit loads to those you can safely control.
    - C. Do not turn sharply. Use care when backing.
    - D. Use counterweight(s) or wheel weights when suggested in owner's manual.
20. Watch out for traffic when crossing or near roadways.
21. When using any attachments, never direct discharge of material toward bystanders nor allow anyone near vehicle while in operation.
22. Handle gasoline with care. It is highly flammable.
    - A. Use approved gasoline container.
    - B. Never remove cap or add gasoline to a running or hot engine or fill fuel tank indoors. Wipe up spilled gasoline.
    - C. Open doors if engine is run in garage. Exhaust fumes are dangerous. Do not run engine indoors.
23. Keep the vehicle and attachments in good operating condition, and keep safety devices in place. Use guards as instructed in owner's manual.
24. Keep all nuts, bolts, and screws tight to be sure the equipment is in safe working condition.
25. Never store the equipment with gasoline in the tank inside a building where fumes may reach an open flame or spark. Allow engine to cool before storing in any enclosure.
26. To reduce fire hazard, keep engine free of grass, leaves or excessive grease.
27. The vehicle and attachments should be stopped and inspected for damage after striking a foreign object. The damage should be repaired before restarting and operating the equipment.
28. Do not change the engine governor settings or overspeed the engine.
29. When using the vehicle with mower, proceed as follows:
    - (1) Mow only in daylight or in good artificial light.
    - (2) Never make a cutting height adjustment while engine is running if operator must dismount to do so.
    - (3) Shut the engine off and wait until the blade comes to a complete stop before removing the grass catcher.
    - (4) Check blade mounting bolts for proper tightness at frequent intervals.
30. Check grass catcher bags frequently for wear or deterioration. For safety protection, replace only with new bag meeting original equipment specifications.
31. Look behind to make sure the area is clear before placing the transmission in reverse and continue looking behind while backing up.

ASSEMBLY INSTRUCTIONS

NOTE

This unit is shipped WITHOUT GASOLINE or OIL. After assembly, see separate engine manual for proper fuel and engine oil recommendations.

Loose Parts in Carton:

(1) Steering Wheel
(1) Battery Pack with Acid
(1) Carton with Grass Catcher, Hitch Plate and all Hardware.

Contents of Hardware Pack:
(See figures 1, 2, 3, 4 and 5)

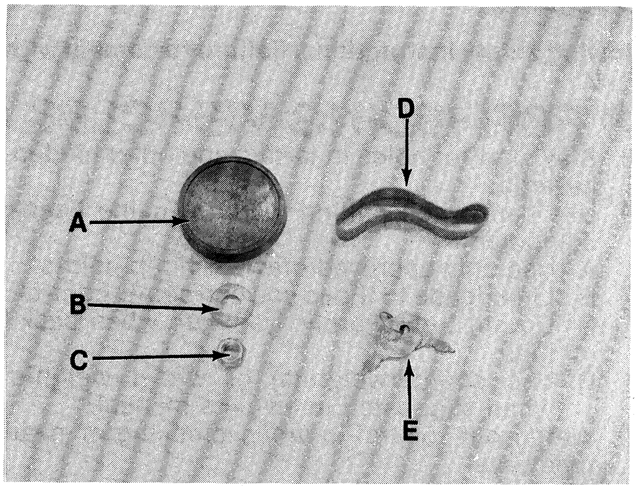


FIGURE 1.

A	(1)	Steering Wheel Cap
B	(1)	Belleville Washer
C	(1)	Hex Lock Nut 5/16-18 Thread
D	(1)	Rubber Band
E	(2)	Ignition Keys
F	(1)	Cable Tie (Not Shown)

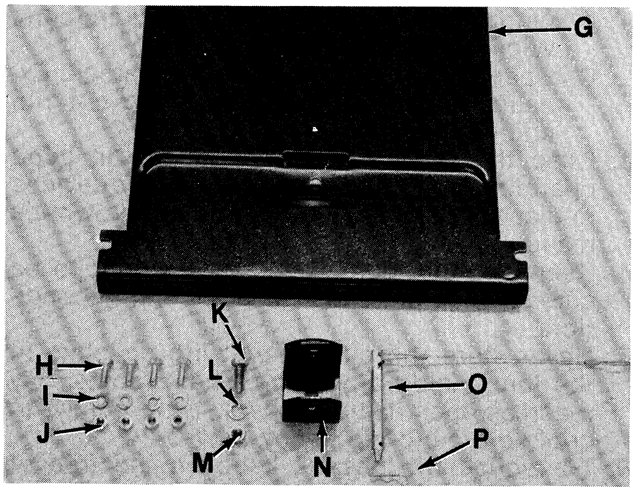


FIGURE 2.

G	(1)	Rear Hitch Plate
H	(4)	Hex Screws 5/16-18 x 3/4″ Long
I	(4)	Lock Washers 5/16″ I.D.
J	(4)	Hex Nuts 5/16-18 Thread
K	(1)	Hex Screw 3/8-16 x 1″ Long
L	(1)	Lock Washer 3/8″ I.D.
M	(1)	Hex Nut 3/8-16 Thread
N	(1)	Hitch Bracket
O	(1)	Hitch Pin
P	(1)	Hairpin Cotter

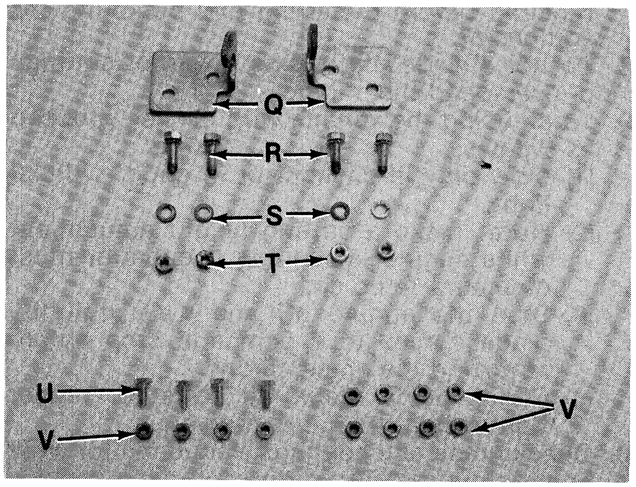
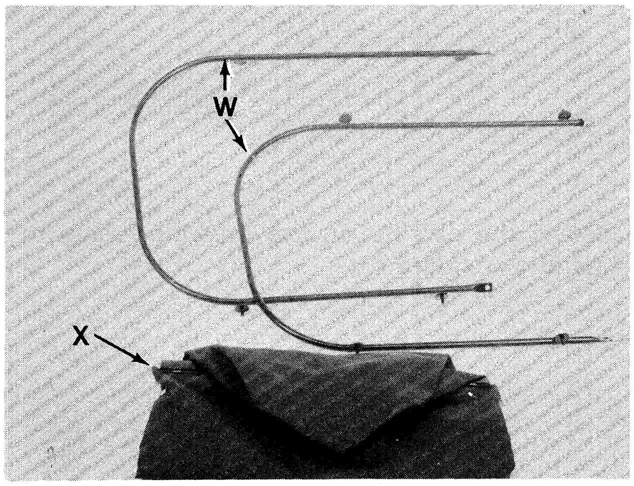


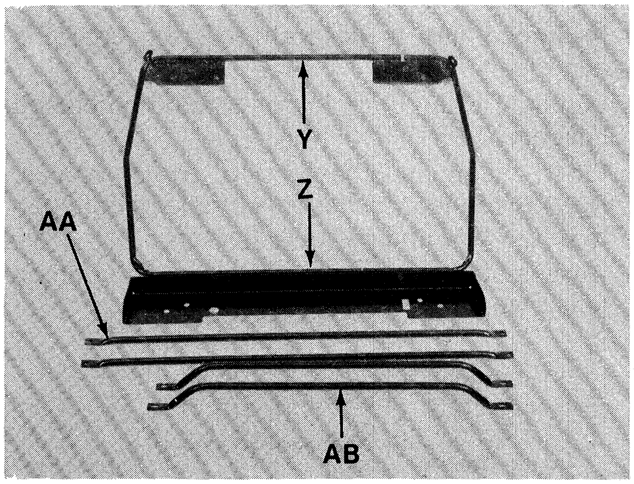
FIGURE 3.

Q	(2)	Hinge—Right and Left Hand
R	(4)	Hex Sems Bolts 5/16-18 x 1.00″ Long
S	(4)	Lock Washers 5/16″ I.D.
T	(4)	Hex Nuts 5/16-18 Thread
U	(4)	Hex Bolts 1/4-20 x 5/8″ Long
V	(12)	Hex Lock Nuts 1/4-20 Thread



W	(2)	Grass Catcher Side Frames
X	(1)	Grass Bag

FIGURE 4.



Y	(1)	Frame Assembly
Z	(1)	Dust Cover
AA	(2)	Bottom Cross Braces
AB	(2)	Catcher Handles

NOTE

Reference to right hand or left hand side of machine is observed from the driver's seat facing forward.

FIGURE 5.

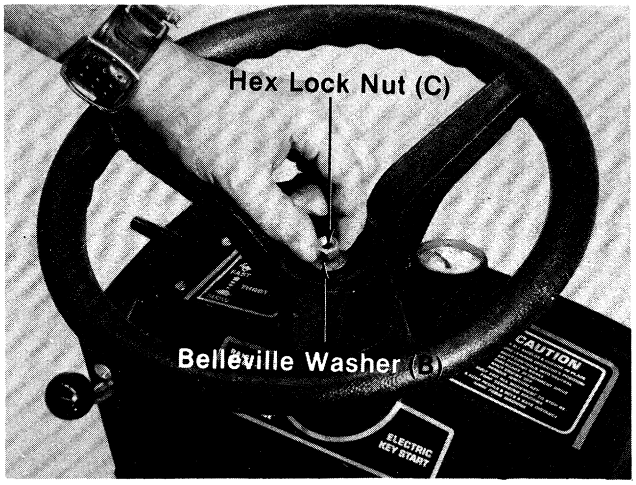

Hex Lock Nut (C)
Belleville Washer (B)
CAUTION
ELECTRIC KEY START

FIGURE 6.

STEERING WHEEL INSTALLATION

1. Remove the riding mower and all parts from the carton. Make certain that all loose parts and literature have been removed before the carton is discarded.
2. Place the steering wheel over the steering shaft. See figure 6.
3. Secure with the belleville washer (B) and the 5/16″ hex lock nut (C). See figure 6.

NOTE

Install the washer with the cupped side down.

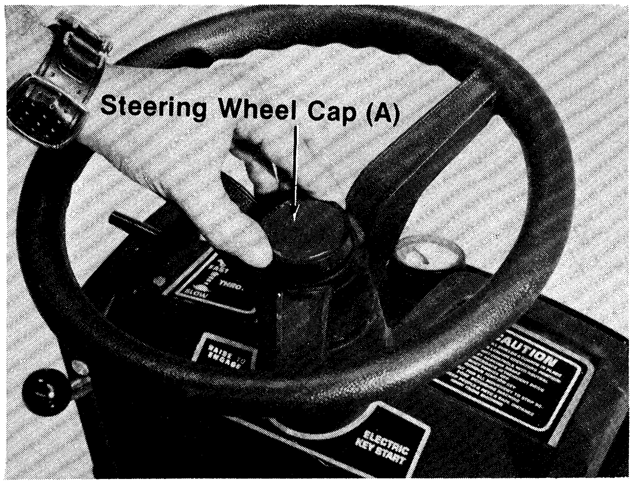


FIGURE 7.

4. Press the cap (A) on the steering wheel by hand. See figure 7.

BATTERY INFORMATION

WARNING

A. Battery acid must be handled with great care as it will blister the skin and damage clothing. It is advisable to wear goggles, rubber gloves, and a protective apron when working with it.
B. If for any reason acid should be spattered in the eyes, wash it out immediately with clean cold water. Seek medical aid if discomfort continues.
C. If acid gets on clothes, dilute it with clean water first, then neutralize with dilute ammonia water or a water solution of baking soda.
D. Since battery acid is corrosive to metals, do not pour into any sink or drain. Rinse empty electrolyte containers and mutilate before discarding.
E. Keep sparks, flame, cigarettes away.
F. Hydrogen gas is generated during charging and discharging.
G. Ventilate when charging or using in enclosed space.
H. When using a charger—to avoid sparks, NEVER connect or disconnect charger clips to battery while charger is turned on.
I. Always shield eyes, protect skin and clothing when working near batteries.

DANGER

BATTERIES CONTAIN SULFURIC ACID AND MAY CONTAIN EXPLOSIVE GASES (when electrolyte has been added).

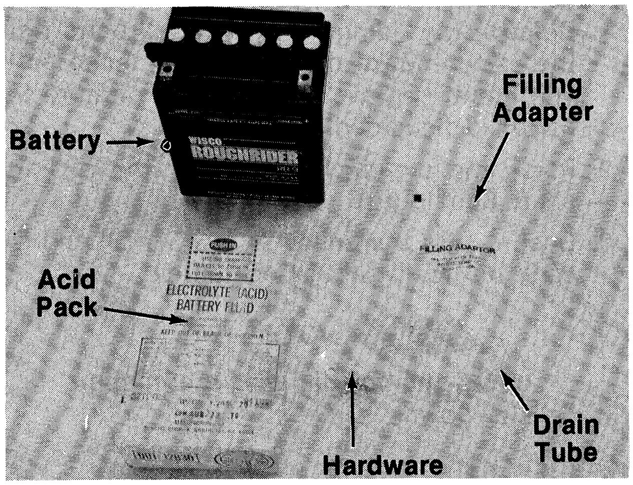


FIGURE 8.

ACTIVATING AND INSTALLING THE BATTERY

1. Upon opening the battery pack, you should receive acid pack, battery, drain tube, filling adapter and hardware. See figure 8.

DANGER

BATTERIES CONTAIN SULFURIC ACID AND MAY CONTAIN EXPLOSIVE GASES (when electrolyte has been added).

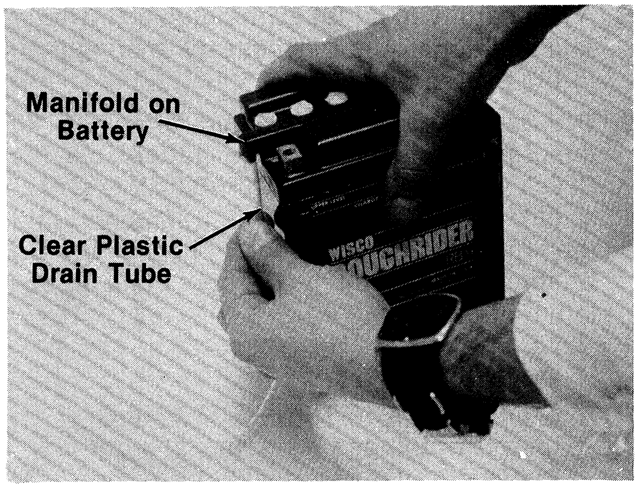

Manifold on Battery
Clear Plastic Drain Tube
WISCO ROUGHRIDER

FIGURE 9.

2. Place the battery on table or workbench to be filled.
3. Place one end of clear plastic drain tube on manifold of battery. See figure 9.

NOTE

Some batteries may already have the drain tube installed, in which case it may be necessary to snip off the sealed end.

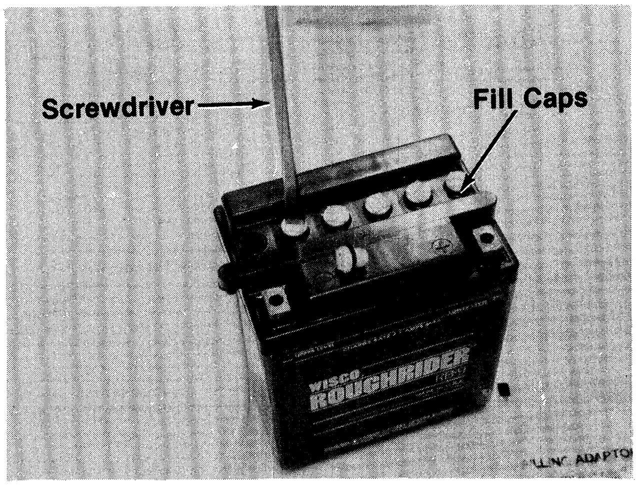

Screwdriver
Fill Caps
WISCO ROUGHRIDER

FIGURE 10.

4. Remove the six fill caps from the top of the battery. A screwdriver will make it easier. See figure 10.

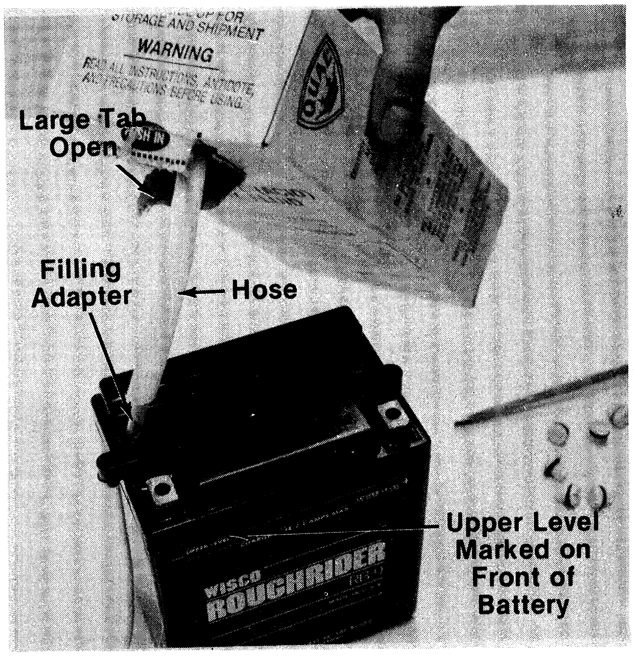

WARNING
Large Tab Open
Filling Adapter
Hose
Upper Level Marked on Front of Battery
WISCO ROUGHRIDER

FIGURE 11.

5. Lay acid package down, with "push in" facing up. Using thumb, push in small perforated tab at dot on front of package. Tear down large tab to solid line, exposing hose. **Do not** use a sharp tool or object to open acid package.
6. Pull out hose from package and hold upright. Squeeze hose forcing all acid back into package. Cut off tip of hose and insert filling adapter. See figure 11.
7. Fill each cell to upper level marked on front of battery. Reassemble fill caps to battery. See figure 11.

WARNING

POISON/DANGER

CAUSES SEVERE BURNS

Contains sulfuric acid. Avoid contact with skin, eyes or clothing. Antidote: EXTERNAL—Flush with water. INTERNAL—Drink large quantities of water or milk. Follow with milk of magnesia, beaten egg or veg. oil. Call physician immediately. Eyes: Flush with water for 15 minutes and get prompt medical attention.

Batteries produce explosive gases. Keep sparks, flame, cigarettes away. Ventilate when charging or using in enclosed space.

Always shield eyes when working near batteries.

KEEP OUT OF REACH OF CHILDREN

8. Allow battery to sit for 20 minutes to 1/2 hour. Add additional acid if necessary to bring it up to the proper level.
9. The battery can be charged after the 20 minutes sitting period. The battery can be SLOW CHARGED (DO NOT FAST CHARGE) at a maximum bench rate of 1.4 amperes until the specific gravity reading is 1.260-1.280. Charge for a minimum of 2 hours and a maximum of 8 hours.

NOTE

Model 131-525A Only—The battery may be charged with the charger provided after it is installed in the unit.

CAUTION

After battery has been in service, add only distilled water. DO NOT ADD ACID.

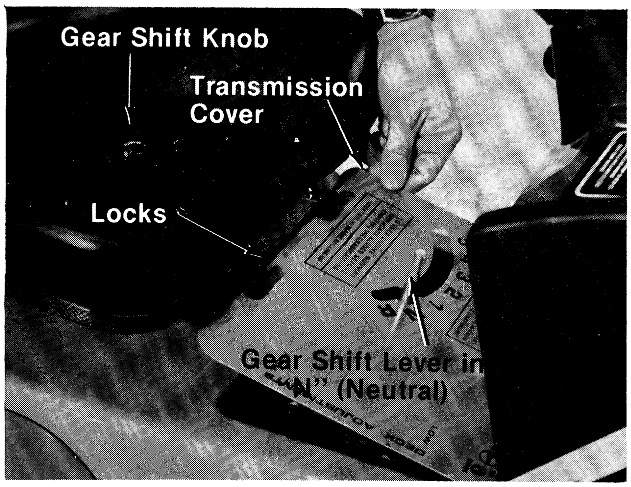


FIGURE 12.

INSTALLING THE BATTERY

1. Place the shift lever in the "N" (neutral) position. Remove the gear shift lever knob. See figure 12.
2. Push down and turn the locks on the transmission cover. See figure 12.
3. Lift out the transmission cover. See figure 12.

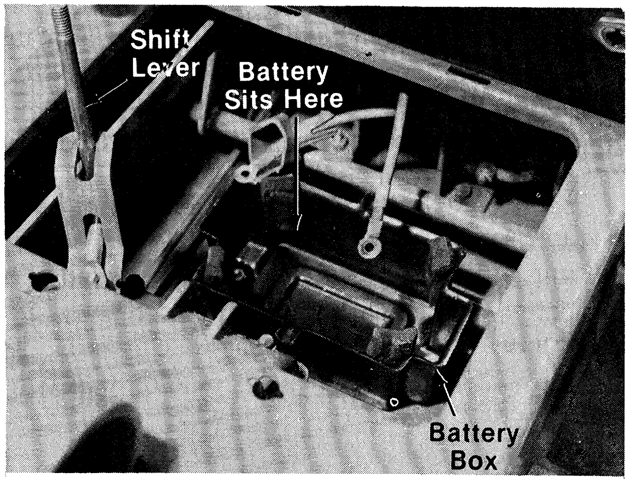


FIGURE 13.

4. Move the shift lever all the way to the left. See figure 13.

   Figure 13 shows the battery box in which the battery will be mounted.

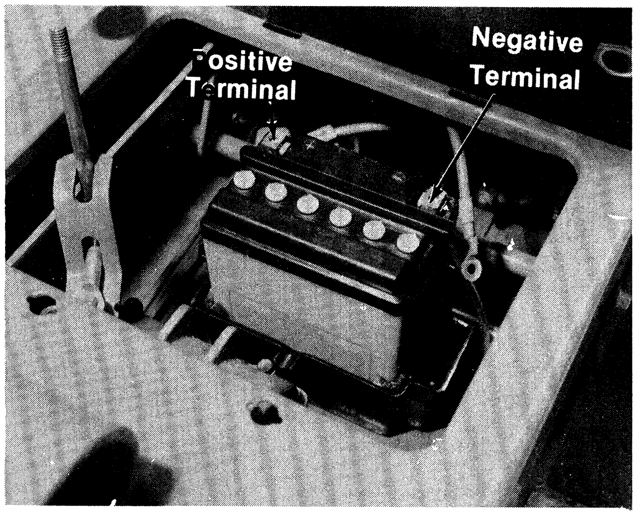


FIGURE 14.

5. Place the battery in the rider so that the positive terminal is towards the left side of the unit. See figure 14.

NOTE

Right and left hand side of the unit is determined by sitting on the seat in the operating position facing forward.

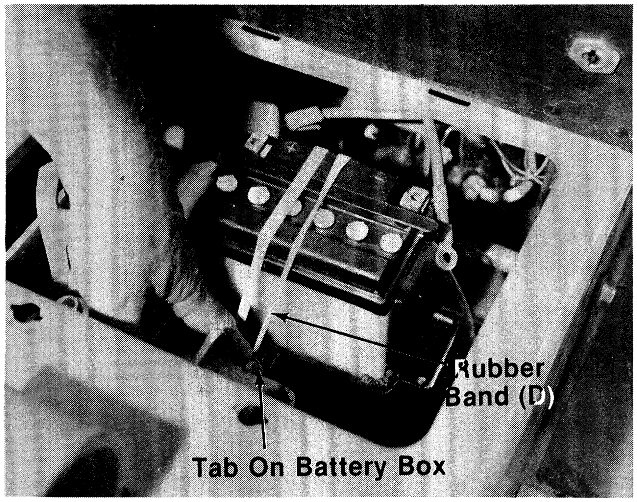


FIGURE 15.

6. Secure the battery to the battery box by stretching the rubber band (D) provided across the battery. Loop each end around the tab on the sides of the battery box. See figure 15.

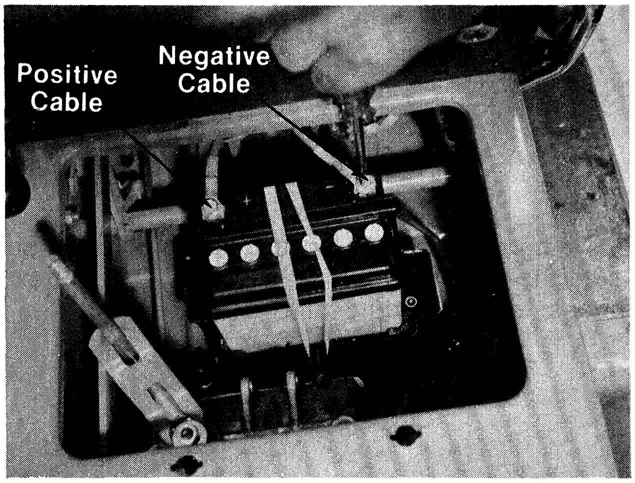


FIGURE 16.

7. Slide the square nut (provided with battery hardware) into the positive (+) terminal. Slide back the rubber boot which is on the positive cable. Place the positive (heavy red wire) cable and the small red wire (with a fuse holder in it) on the positive terminal. Secure with screw and lock washer provided.
8. Slide the square nut (provided with battery hardware) into the negative (–) terminal. Place the negative (heavy red wire) cable on the negative terminal. Secure with screw and lock washer provided. See figure 16.

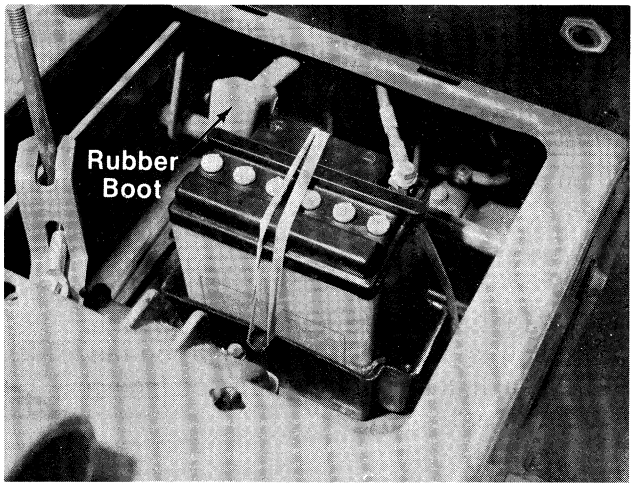

Rubber Boot

FIGURE 17.

9. Slide the rubber boot over the positive terminal. See figure 17.

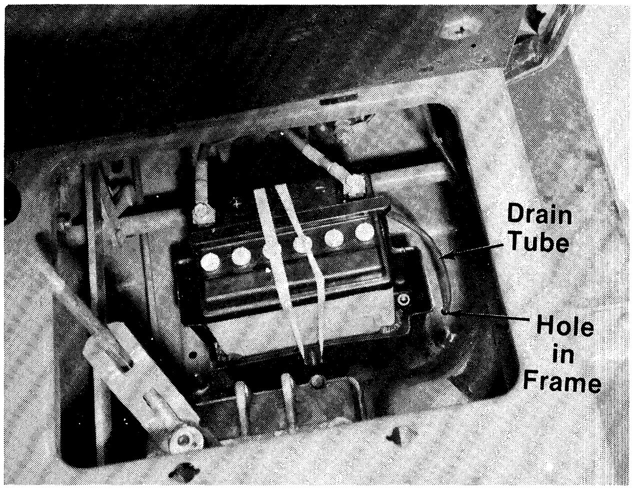

Drain Tube
Hole in Frame

FIGURE 18.

10. Feed the end of the battery drain tube through the hole provided in the frame. See figure 18.

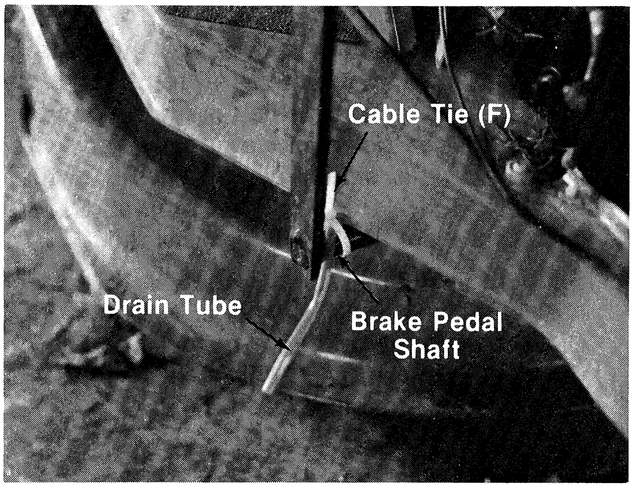

Cable Tie (F)
Drain Tube
Brake Pedal Shaft

FIGURE 19.

11. Using cable tie (F), secure battery drain tube to the brake pedal shaft assembly. Cut off excess end. See figure 19.

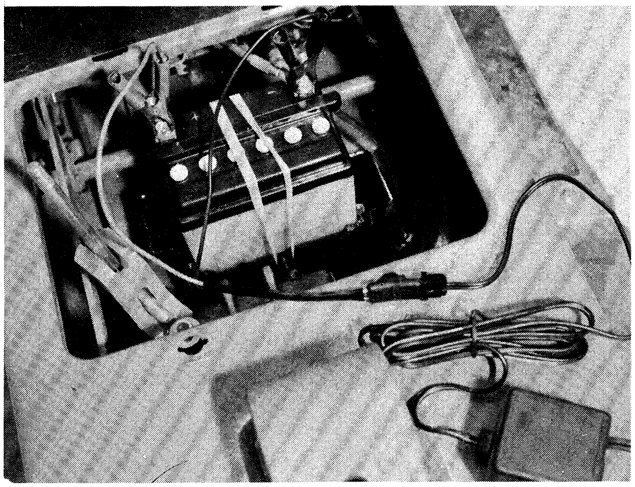


FIGURE 20.

12. **Model 131-525A Only—**Slide the rubber boot off the battery and charge the battery as follows. See figure 20. The battery can be SLOW CHARGED (DO NOT FAST CHARGE) at a maximum bench rate of 1.4 amperes until the specific gravity reading is 1.260-1.280. Charge for a minimum of 2 hours and a maximum of 8 hours.

WARNING

The battery charger provided is specially designed for the battery in this unit. **Do not use any other charger.** A charging rate in excess of the above specifications will buckle and warp the positive plates and/or perforate the separators.

To Attach the Battery Charger:

1. Attach the red clip on the charger to the positive terminal.
2. Attach the black clip on the charger to the negative terminal.
3. Plug the other end of the battery charger into a standard household 110 A.C. outlet.

To Remove the Battery Charger:

1. Unplug the charger from the 110 A.C. outlet.
2. Remove the black clip from the negative terminal.
3. Remove the red clip from the positive terminal.

WARNING

Failure to follow the above procedure when charging a battery can cause the gases in the battery to explode.

NOTE

Charging rate after battery has been put into operation: The battery is to be charged with the charger provided, for a period of 14-16 hours. NO LONGER THAN 30 HOURS.

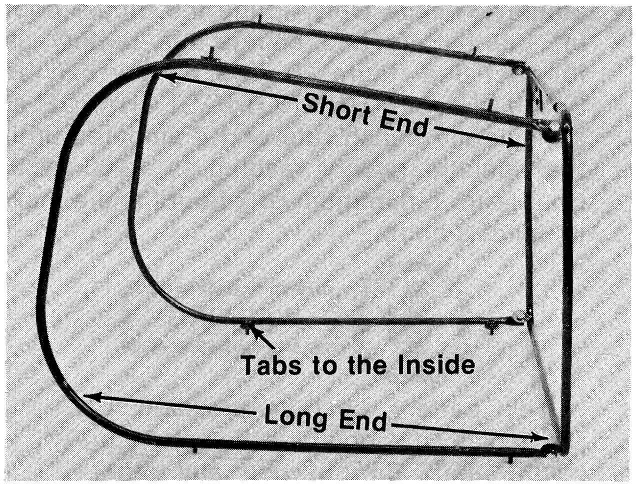

Short End
Tabs to the Inside
Long End

FIGURE 21.

ASSEMBLY OF GRASS CATCHER

NOTE

Figure 21 was photographed without the grass bag for clarity.

1. Place the right and left hand frame sides (W) into the grass bag (X). The long end of side frame goes to the bottom of the bag.
2. Place the weld bolts on side frames through the eyelets in bag.

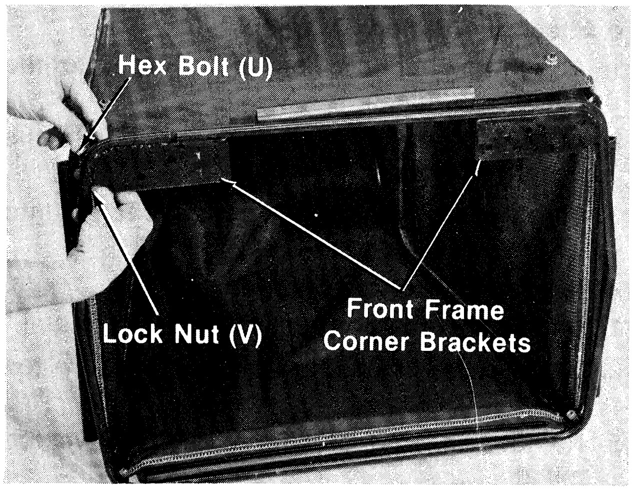

Hex Bolt (U)
Lock Nut (V)
Front Frame
Corner Brackets

FIGURE 22.

3. Bolt the front frame assembly (corner brackets to the top) to the side frames with four hex bolts (U) and hex lock nuts (V). See figure 22.

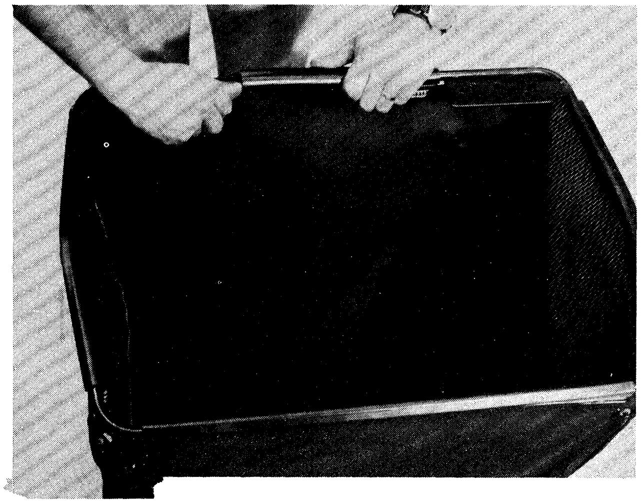


FIGURE 23.

4. Snap the plastic edge of grass bag over frame. See figure 23.

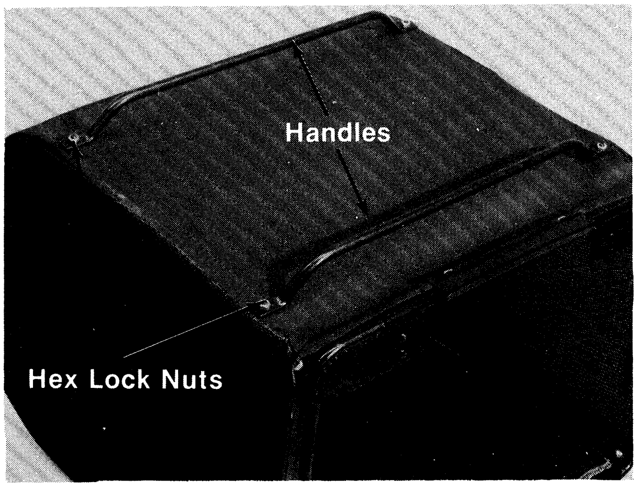

Handles
Hex Lock Nuts

FIGURE 24.

5. Place the grass catcher top side up. Place two handles (AB) in position and secure with four hex lock nuts (V). See figure 24.

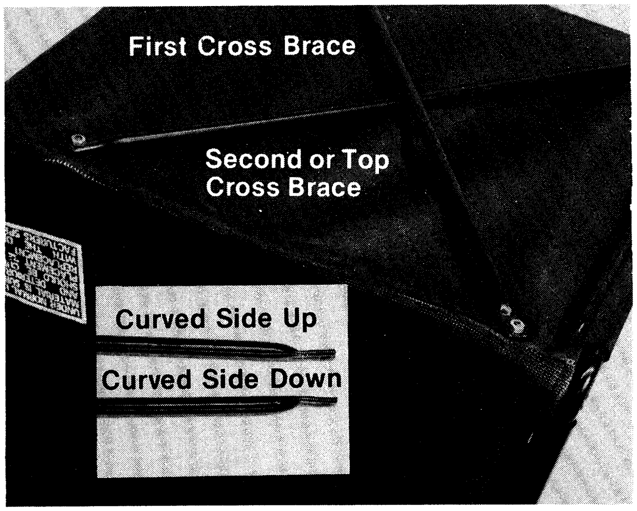

First Cross Brace
Second or Top Cross Brace
Curved Side Up
Curved Side Down

FIGURE 25.

6. Turn the grass catcher over bottom side up. Place the cross braces (AA) in position as shown in figure 25. Please note first brace will have the curved side down. The top brace will be positioned with the curved side up. See figure 25.

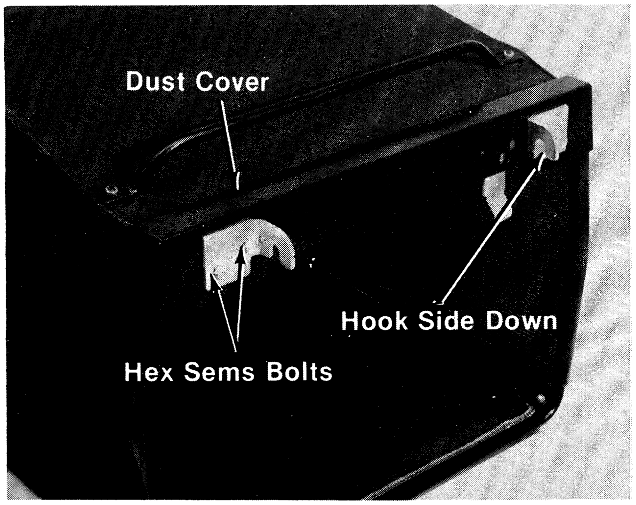

Dust Cover
Hook Side Down
Hex Sems Bolts

FIGURE 26.

7. Place dusty cover (Z) in position on top front of catcher. Place right and left hand hinges (U) in position and secure with hex sems bolts (R), lock washers (S) and hex nuts (T). See figure 26.

   HINT: Hinges will only match the hole pattern one way (hook down).

   Only make bolts finger tight at this time.

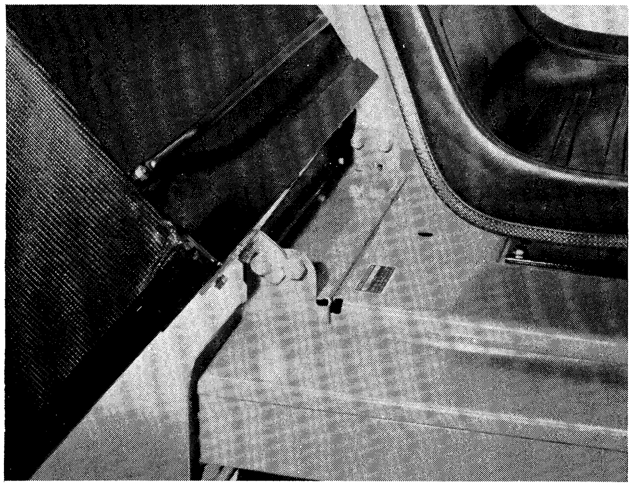


FIGURE 27.

8. Assemble the grass catcher to riding mower. See figure 27.

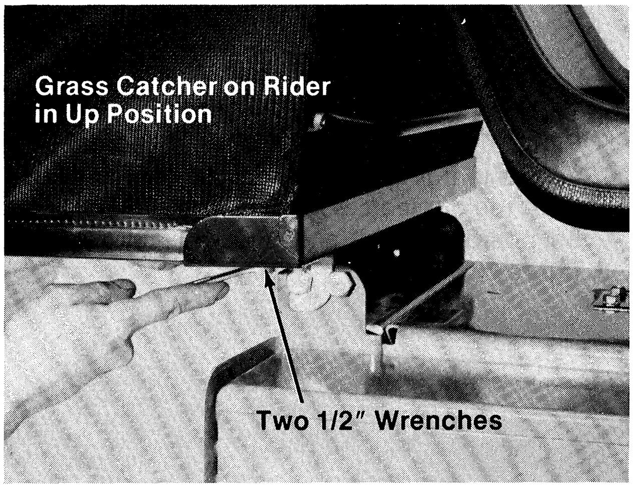

Grass Catcher on Rider in Up Position
Two 1/2″ Wrenches

FIGURE 28.

9. Lift the grass catcher all the way up. Have someone hold grass catcher up or block up. Then with two 1/2″ wrenches, tighten hinge bracket bolts securely. See figures 28 and 29.

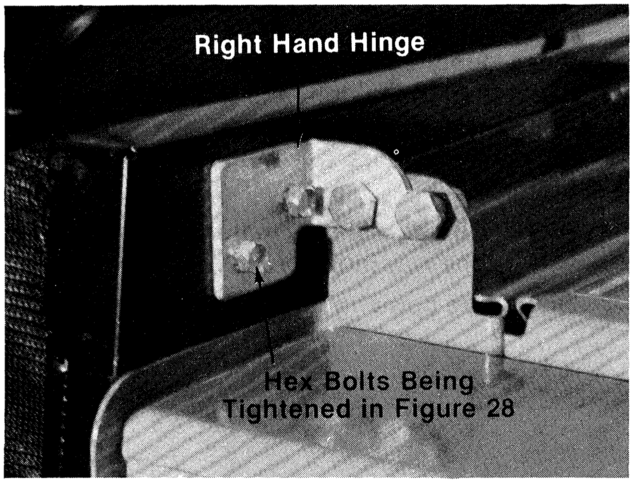

Right Hand Hinge
Hex Bolts Being Tightened in Figure 28

FIGURE 29.

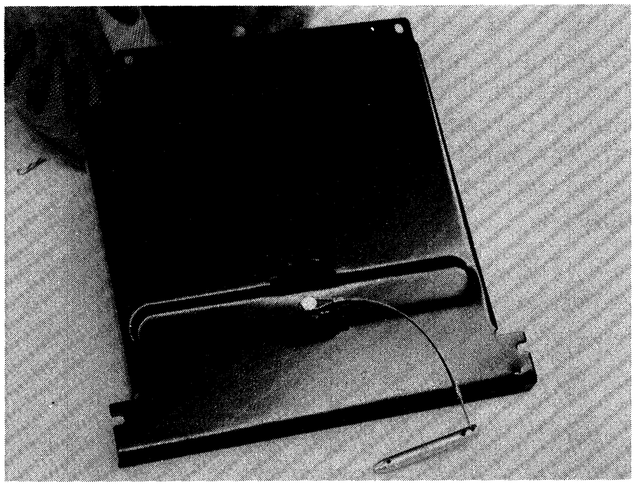


FIGURE 30.

ASSEMBLY OF HITCH PLATE

The hitch plate is used in place of the grass catcher when towing a trailer.

1. Remove the grass catcher.
2. Place the hitch bracket through the hitch plate. Secure with hex bolt (K), lock washers (L) and hex nut (M).

➡ **NOTE**

Attach the looped end of hitch pin (O) under head of bolt. See figure 30.

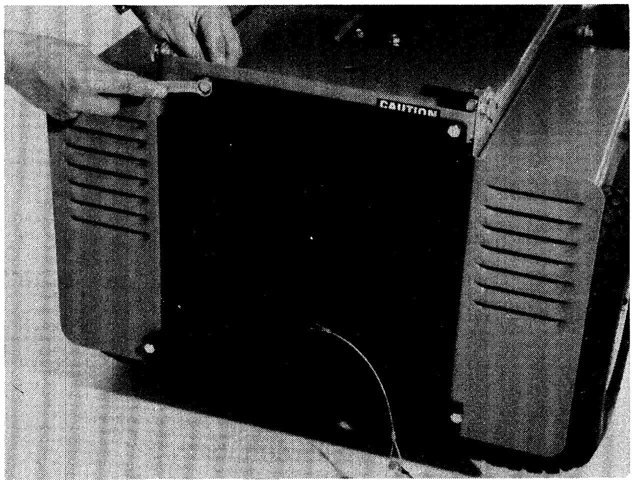


FIGURE 31.

3. Place the rear hitch plate against the discharge opening of the rider. Attach with four 5/16″ screws (H), lock washers (I) and nuts (J). See figure 31.

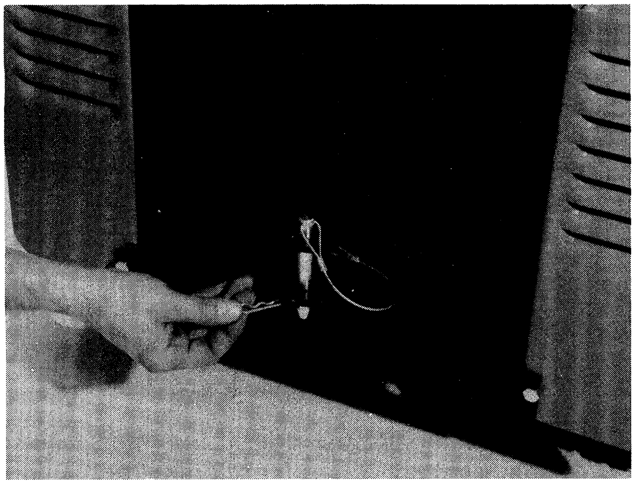


FIGURE 32.

4. Use the hitch pin to secure your attachments to the rider. See figure 32.

OPERATION

CAUTION

1. Keep all shields in place.
2. Before leaving operator's position:
    a. Shift transmission to neutral
    b. Set parking brake
    c. Disengage attachment clutch
    d. Shut off engine
    e. Remove ignition key
3. Wait for all movement to stop before servicing machine.
4. Keep people and pets a safe distance away from machine.
5. Look to the rear before backing up.

Throttle Control

The throttle control is used to regulate the engine speed and choke the engine. The engine should be operated from 3/4 to full throttle when operating the cutting deck or snow thrower. See figure 33 or 34.

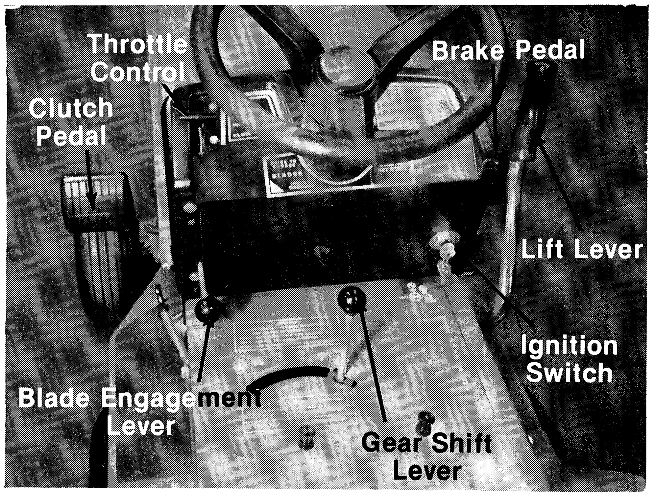


FIGURE 33. Model 131-525A

Ignition Switch

The ignition switch is located on the right side of the dashboard. Turn the key to the START position to start the engine. When the engine is running, leave the key in the ON position. To stop the engine, turn the key to the OFF position.

CAUTION

Remove the key from the riding mower when the mower is not in use to prevent accidental starting.

Ammeter (Model 131-526A Only)

The ammeter registers the rate of battery charge or discharge. The ammeter should register about 3 amps on the plus (+) side with the engine running fast. The head lamps operate directly from the engine and do not register on the ammeter. See figure 34.

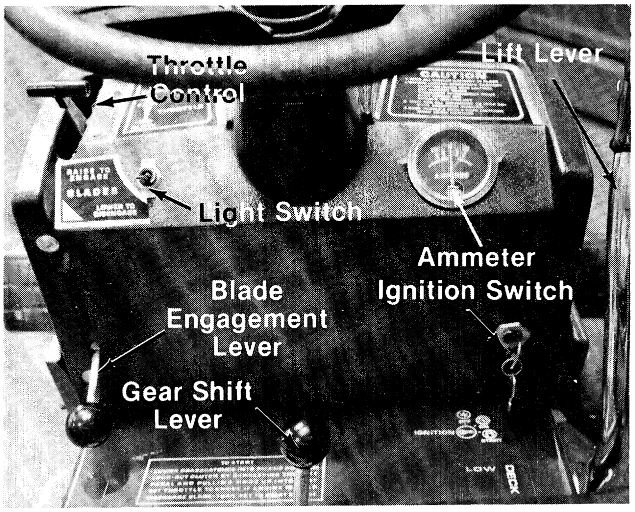


FIGURE 34. Model 131-526A

Battery Charger (Model 131-525A Only)

See page 11 of this manual for battery charger operation.

NOTE

The battery charger may be equipped with a circuit breaker. If battery charger fails to work the first time, wait at least three minutes, then try again.

Safety Interlock System

A series of electric switches are used to insure that the clutch is disengaged and the cutting blade is shut off before the engine can be started.

The safety interlock system has another switch located on the rear of the rider that is activated when the grass catcher is attached to the rider. If you remove the grass catcher or attempt to dump the grass without shutting off the blade, the engine will stop.

WARNING

Do not operate the rider if the interlock system is malfunctioning because it is a safety device, designed for protection.

Light Switch (Model 131-526A Only)

To turn on head lamps, push the switch marked "Lights" located on the left side of the dashboard. See figure 34.

NOTE

The head lamps operate directly from the alternator and only operate when the engine is running.

Gasoline Gauge

The gasoline gauge is located in the gasoline fill cap. The gauge indicates the amount of fuel in the tank.

Clutch Parking Brake Pedal

The clutch parking brake pedal is located on the left side of the rider and is used to disengage the drive mechanism. Depressing the clutch parking brake pedal will disengage the drive and APPLY THE DISC BRAKE TO THE REAR WHEELS. The clutch parking brake pedal must be depressed when you come to a stop, shift gears or start the engine. See figure 35.

Clutch Parking Brake Lock

When the clutch parking brake pedal is depressed all the way, it can be locked in the disengaged position by lifting up the lock button. To release, depress the pedal. See figure 35.

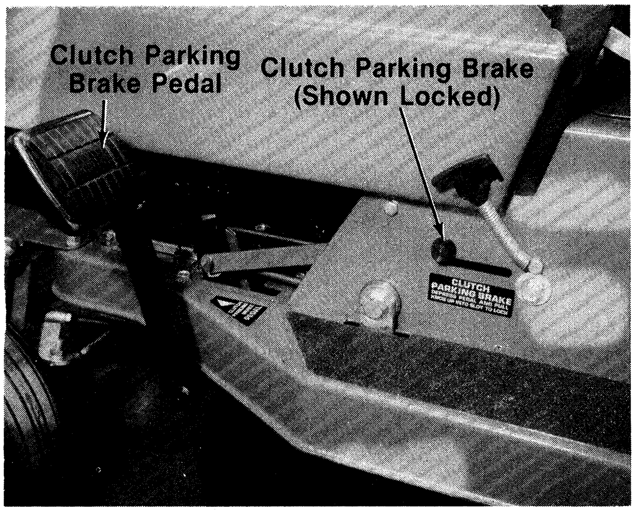

Clutch Parking Brake Pedal
Clutch Parking Brake (Shown Locked)
CLUTCH PARKING BRAKE

FIGURE 35.

Brake Pedal

The brake pedal is located on the right side of the mower and is operated by depressing it with your right foot. When coming to a complete stop, it is necessary to depress both the clutch parking brake and the brake pedals. See figure 36.

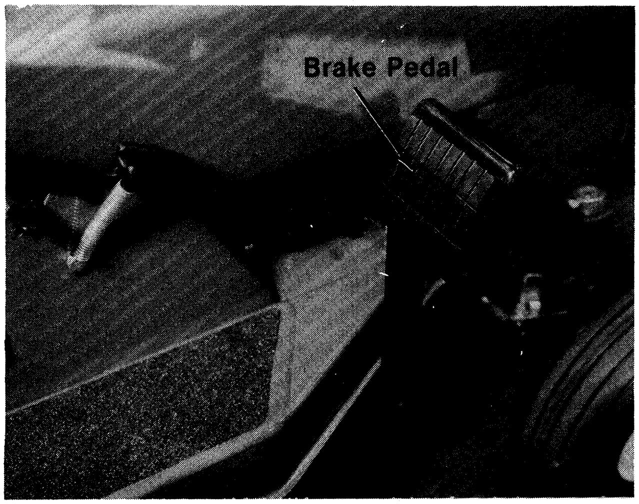


FIGURE 36.

Gear Shift Lever

The five speed transmission has five forward speeds, neutral and reverse. Do not shift normally through the gears on this transmission as in an automobile. Pre-select the gear appropriate for the job you are doing. The list can be used as a guide to select the proper gear. You must depress the clutch pedal when you stop and when you shift.

1st gear—Heavy Cutting
2nd gear—Medium Cutting
3rd gear—Medium Cutting
4th gear—Light Cutting
5th gear—Traveling
Neutral
Reverse

Lift Lever

The lift lever is located on the right hand side of the unit. It is used to raise and lower the cutting deck.

There are five cutting heights from 2¼" to 3¾". Set the stop (see figure 37) at the desired cutting height.

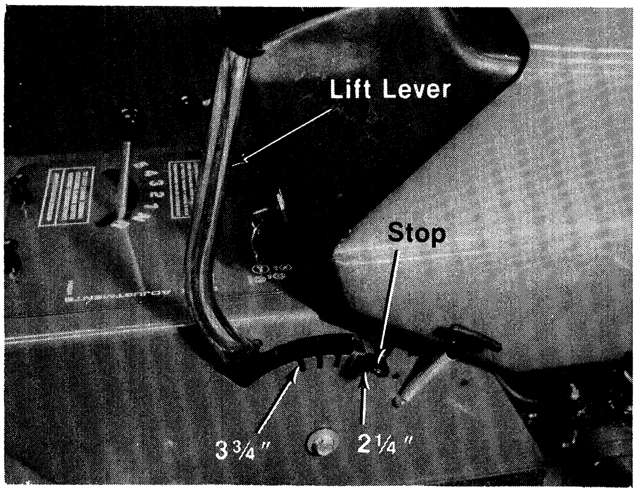


FIGURE 37.

CAUTION

The blade does not shut off when the deck is raised. You must place the Blade Engagement Lever in the raised (OFF) position.

Blade Engagement Lever

To engage the cutting blade, raise the Blade Engagement Lever up and to the left. It will lock in this position. To disengage the blade, move the Blade Engagement Lever to the right and lower it slowly. The blade must be shut off in order to start the engine or to dump the grass catcher. See figures 38 and 39.

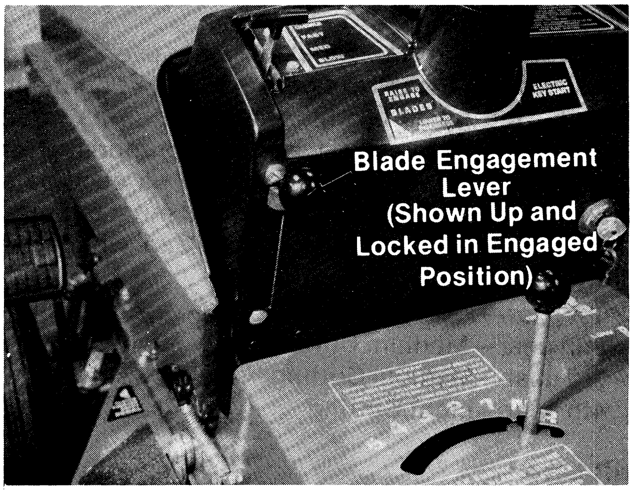

Blade Engagement Lever (Shown Up and Locked in Engaged Position)

FIGURE 38.

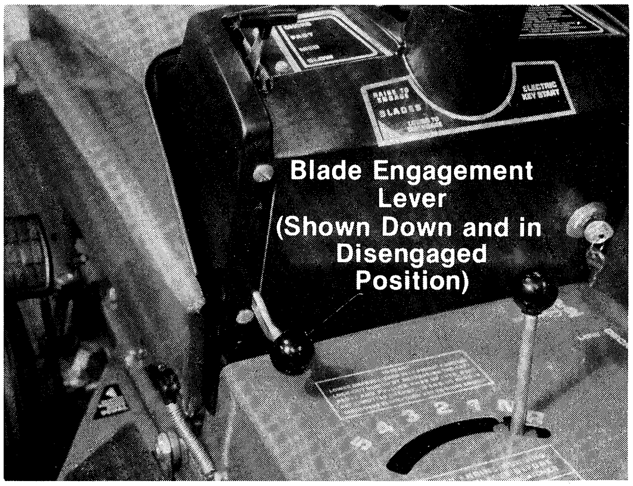

Blade Engagement Lever (Shown Down and in Disengaged Position)

FIGURE 39.

Grass Catcher Operation

WARNING

The grass catcher is a part of the riding mower. The riding mower should not be operated without the grass catcher in place.

The grass catcher can be removed to dump the clippings by grasping both handles and lifting the rear handle first to tip the catcher slightly, and then remove it completely. To attach, hook the hinges on the catcher over the REAR pins on the riding mower. See figure 40.

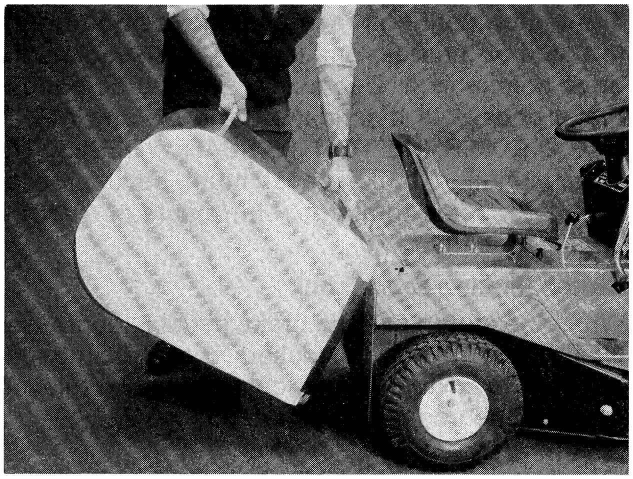


FIGURE 40.

To dump the grass, grasp the rear handle and pull it towards you. See figure 41.

CAUTION

The Blade Engagement Lever must be in the disengaged position or the engine shut off before dumping or removing the grass catcher.

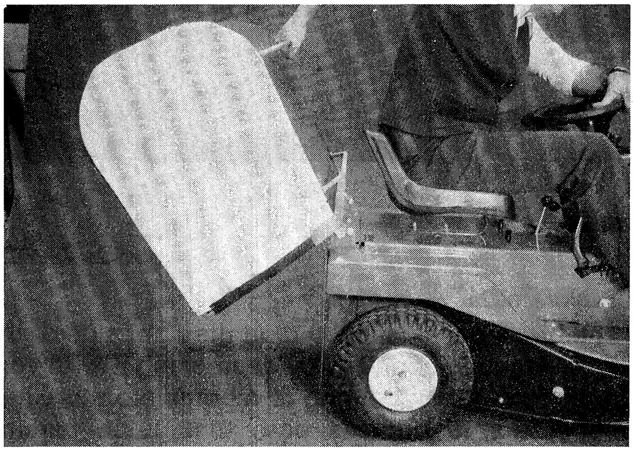


FIGURE 41.

IMPORTANT

After striking a foreign object, stop the engine. Remove wire from spark plug, thoroughly inspect the mower for any damage, and repair the damage before restarting and operating the mower.

NOTE

Under normal usage the grass catcher is subject to wear, and should be checked periodically. Be sure any replacement complies with the mower manufacturers recommendation.

ADJUSTMENTS

CAUTION

Do not at any time make any adjustment to lawn mower without first stopping engine and disconnecting spark plug wire.

CHAIN ADJUSTMENT

After the first five hours of operation, the initial slack should be removed from the chain. The chain should be tight enough so that it deflects approximately ½ inch when it is depressed with the thumb.

1. To tighten the chain, loosen the two nuts on each side of the frame holding the differential bracket to the frame. See figure 42.

NOTE

These are located under the frame.

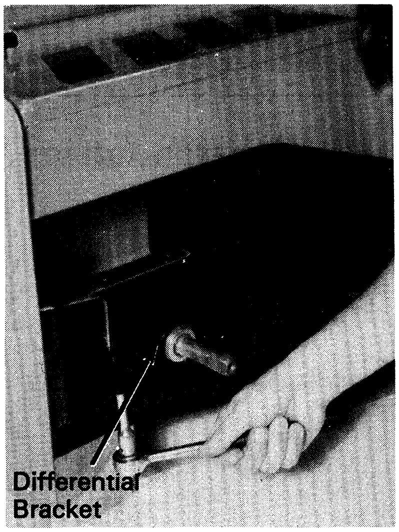


FIGURE 42.

2. Tighten the adjusting nuts as shown in figure 43 until you have the proper tension.
3. Tighten the nuts holding the differential bracket to the frame.

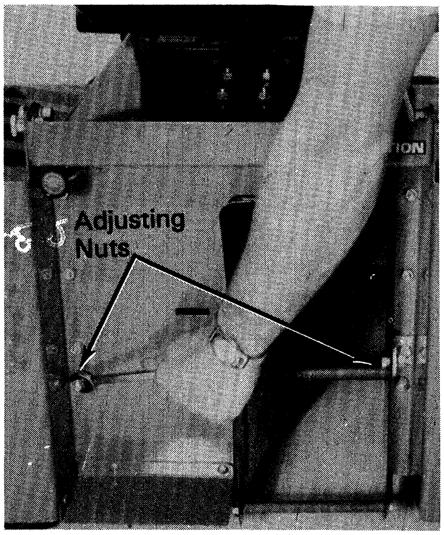


FIGURE 43.

BRAKE ADJUSTMENT

During normal operation of this machine, the brakes are subject to wear and will require periodic examination and adjustment.

To adjust the brake, tighten the lock nut one half turn and then test the brake. The brake stops the rider by gripping the sprocket on the rear axle. See figure 44.

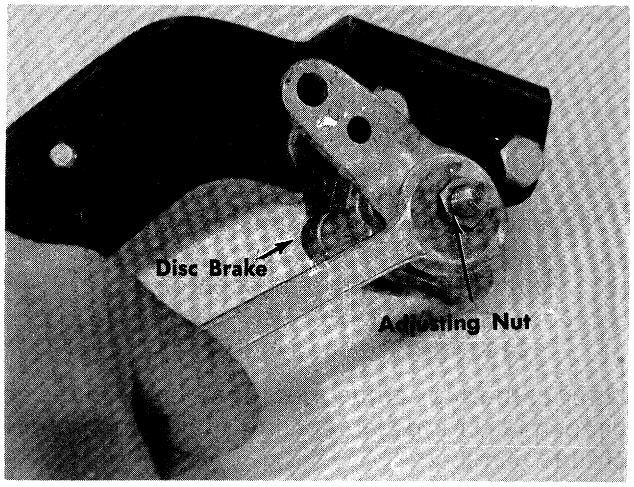


FIGURE 44.

WHEEL ALIGNMENT

The caster (forward slant of the king pin) and the camber (tilt of the wheels out at the top) require no adjustment. Automotive steering principles have been used to determine the caster and camber on the mower. The front wheels should toe-in 1/8 inch. See figure 45. To adjust, follow these steps:

1. Remove the cotter pin holding the ferrule to the axle bracket. See figure 45.

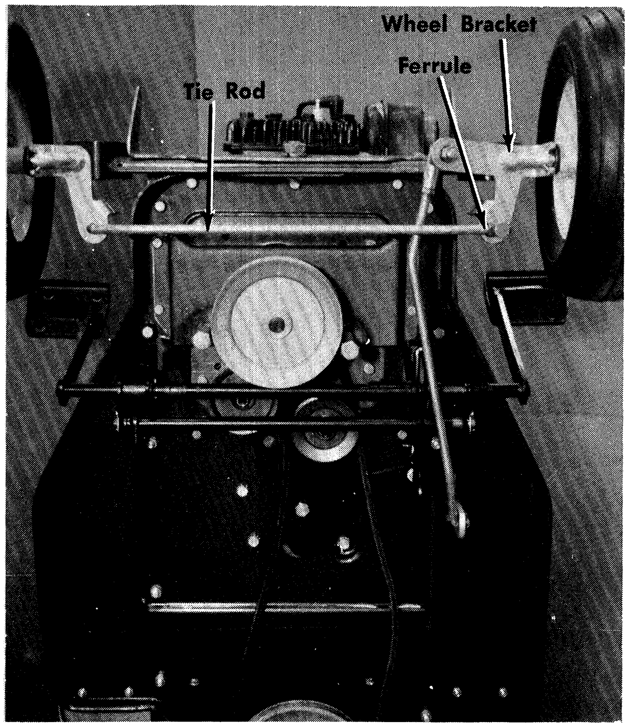


FIGURE 45.

2. Adjust the ferrule in or out until the wheels toe-in approximately 1/8″.
3. Replace the ferrule into the wheel bracket and replace the cotter pin.

CARBURETOR ADJUSTMENT

WARNING

If any adjustments are made to the engine while the engine is running (e.g. carburetor), disengage all clutches and blades. Keep clear of all moving parts. Be careful of heated surfaces and muffler.

Minor carburetor adjustment may be required to compensate for differences in fuel, temperature, altitude and load.

To Adjust Carburetor. Turn needle valve clockwise until it just closes.

CAUTION

Valve may be damaged by turning it in too far.

Now open needle valve 1-1/8 turns counterclockwise. Close idle valve in same manner and open 1-1/8 turns. This initial adjustment will permit the engine to be started and warmed up prior to final adjustment.

Final Adjustment. Turn needle valve in until engine misses (lean mixture). Then turn it out past smooth operating point until engine runs unevenly (rich mixture). Now turn needle valve to the midpoint between rich and lean so the engine runs smoothly. Hold throttle at idle position and set idle speed adjusting screw until fast idle is obtained (1750 RPM). Hold throttle in idle position and turn idle valve in (lean) and out (rich) until engine idles smoothly. Then reset idle speed adjusting screw so that engine idles at 1750 RPM. Release throttle—engine should accelerate without hesitation or sputtering. If engine does not accelerate properly, the carburetor should be readjusted to a slightly richer mixture.

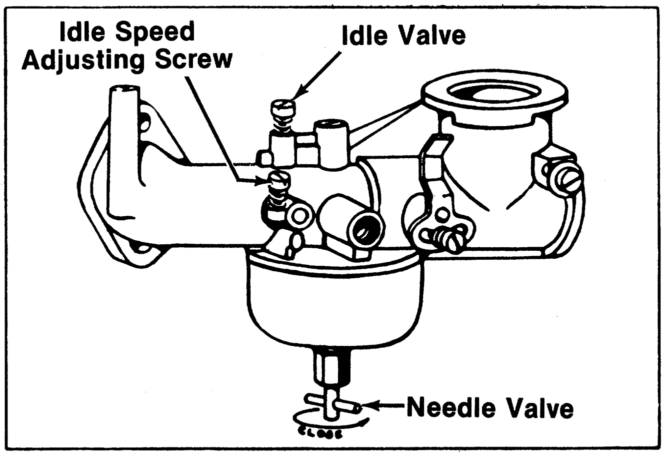


FIGURE 46. CARBURETOR ADJUSTMENT

LUBRICATION

SPECIFICATIONS:

(Lubricate once a season or after every 25 hours of operation)

Oil—Use SAE 30 or equivalent.

Grease—Use automotive multi-purpose grease, except in the differential and transmission.

Grease (Transmission and Differential)—Use E.P. Lithium grease.

Engine—Remove oil fill plug and add oil until it is full to point of overflowing or to full mark on dipstick. Above Freezing Temperature, use oil with viscosity grade SAE 30, SAE 10W-30 or SAE 10W-40.

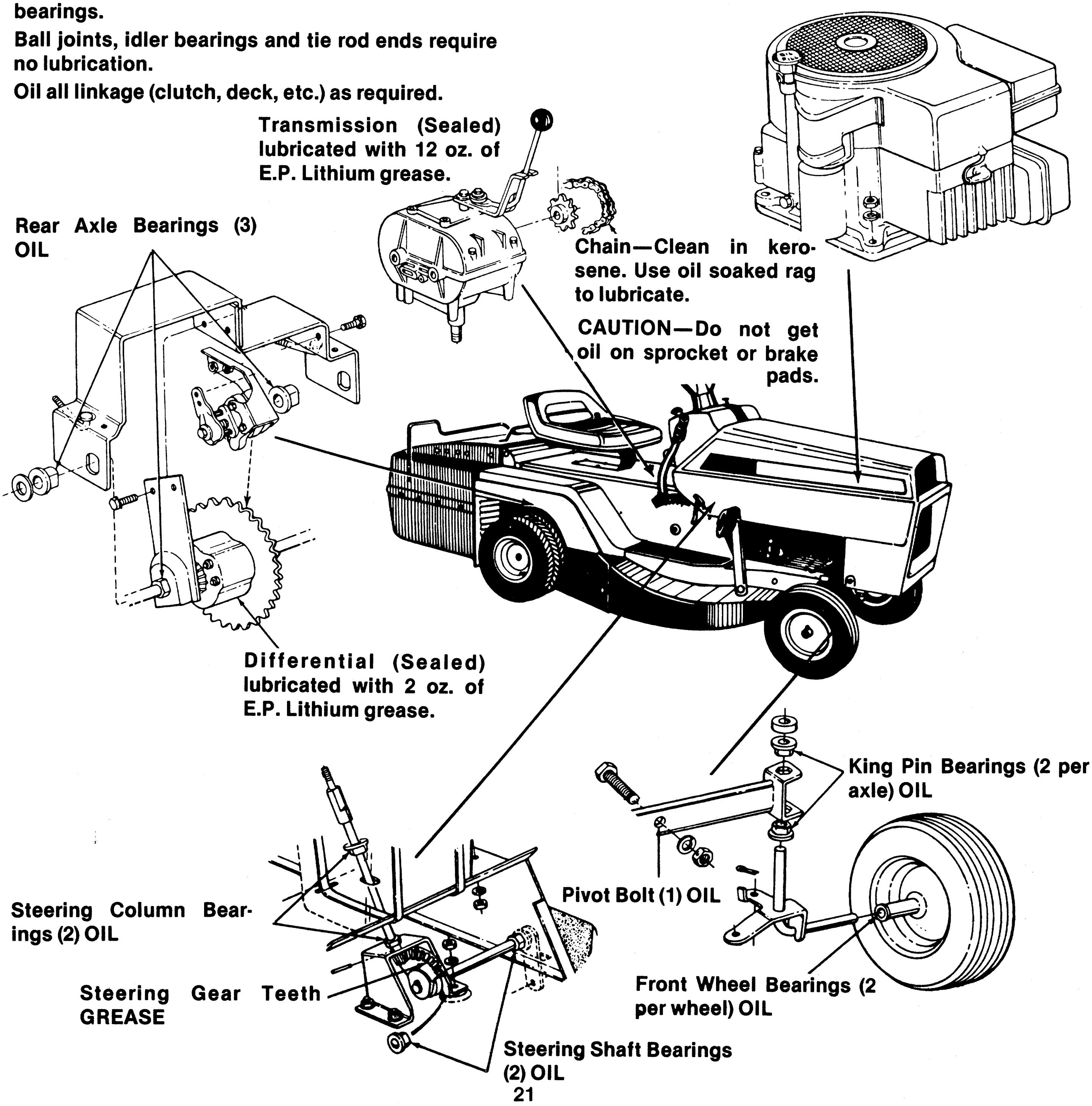
Below Freezing Temperature, use oil with viscosity grade SAE 5W-20, or SAE 5W-30 or SAE 10W.

NOTES:

When operating in sandy areas, do not oil the bearings.

Ball joints, idler bearings and tie rod ends require no lubrication.

Oil all linkage (clutch, deck, etc.) as required.



Transmission (Sealed) lubricated with 12 oz. of E.P. Lithium grease.

Rear Axle Bearings (3) OIL

Chain—Clean in kerosene. Use oil soaked rag to lubricate.

CAUTION—Do not get oil on sprocket or brake pads.

Differential (Sealed) lubricated with 2 oz. of E.P. Lithium grease.

King Pin Bearings (2 per axle) OIL

Pivot Bolt (1) OIL

Steering Column Bearings (2) OIL

Steering Gear Teeth GREASE

Front Wheel Bearings (2 per wheel) OIL

Steering Shaft Bearings (2) OIL

MAINTENANCE

WARNING

Disconnect spark plug wire and ground it against the engine before performing any repairs or maintenance.

CRANKCASE OIL

To ensure maximum engine performance, perform the following periodic maintenance:

Oil Check

Check the oil level in the crankcase before each use of the machine and after every five hours of operation. Oil should be kept between the add and full marks on the dipstick or full to point of overflowing.

After the first five hours of operating a new engine, drain the oil from the crankcase while engine is still hot and refill crankcase with new oil; thereafter change the oil every 25 hours of operation. This procedure ensures minimum wear of engine parts. To change the oil, proceed as follows:

1. With the machine on level ground, place a suitable metal container under the oil drain plug, then remove the drain plug.
2. After the oil has been drained completely from the crankcase, replace the drain plug and tighten.
3. Refill crankcase with 2¼ pints of good quality, type MS, engine oil into the crankcase. Summer use SAE 30; Winter (below 40°F) use SAE 5W-20 or SAE 10W.

AIR CLEANER

Under normal operating conditions, the air cleaner, located on top of the carburetor, must be serviced after every ten hours of use. Under extremely dusty operating conditions, the air cleaner must be serviced after every hour of operation. Refer to figure 47.

When assembling the air cleaner, make certain the lip of the foam element extends over edge of the air cleaner body. The foam element will form a protective seal.

Step 1. Remove two screws and lift off complete air cleaner assembly.

Step 2. Remove screen and spacers from foam element.

Step 3. Remove foam element from air cleaner body.

Step 4. a. Wash foam element in kerosene or liquid detergent and water to remove dirt.
b. Wrap foam in cloth and squeeze dry.
c. Saturate foam in SAE 30 engine oil, then squeeze out excess oil.
d. Assemble parts. Fasten to carburetor with screw.

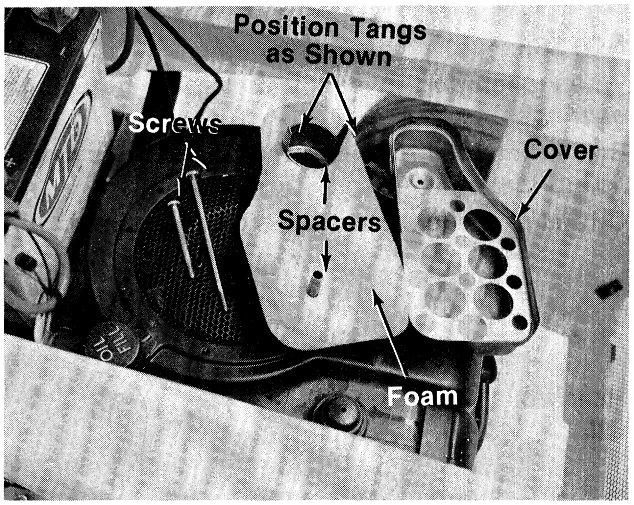


FIGURE 47.

CLEANING ENGINE AND BLADE HOUSING

Any fuel or oil spilled on the machine should be wiped off promptly. Grass, leaves, and other dirt must not be left to accumulate around the cooling fins of the engine or on any part of the machine.

Clean the underside of the blade housing after each mowing.

BELTS

Check that belts are free of oil or dirt. Wipe the belts periodically with a clean rag.

SPARK PLUG

The spark plug should be cleaned and the gap reset to a 0.030-inch clearance once a season. Spark plug replacement is recommended at the start of each mowing season; check engine manual for correct plug type.

NOTE

Whenever the spark plug is removed for cleaning, it is advisable to replace the spark plug gasket with a new gasket.

CUTTING BLADE

A. Removal for Sharpening or Replacement

WARNING

Be sure to disconnect and ground the spark plug wire before working on the cutting blade to prevent accidental engine starting.

1. Remove large bolt and lock washer which holds the blade and adapter to the blade spindle.
2. Remove the blade and adapter from the spindle. Be careful not to lose the key on the spindle.
3. If the blade or blade adapter needs replacing, remove the two small bolts, lock washers and nuts which hold the blade to the adapter.

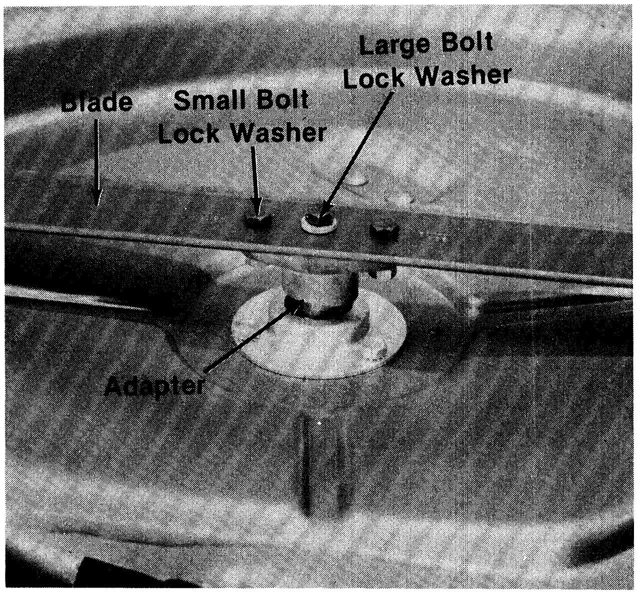


FIGURE 48.

B. Sharpening

Remove the cutting blade by following the directions of the preceding section.

When sharpening the blade, follow the original angle of grind as a guide. It is **extremely important** that each cutting edge receives an equal amount of grinding to prevent an unbalanced blade. An unbalanced blade will cause excessive vibration when rotating at high speeds and may cause damage to the mower.

The blade can be tested for balance by balancing it on a round shaft screwdriver. Remove metal from the heavy side until it balances evenly.

NOTE

It is recommended that the blade always be removed from the adapter for the best test of balance.

C. Reassembly

Before reassembling the blade and the blade adapter to the unit, lubricate the spindle and the inner surface of the blade adapter with light oil. Lubricating the bolt holes, bolts and inner surface of the nuts with light oil is also recommended. A 4 oz. plastic bottle of light oil lubricant is available. Order part number 737-0170. Engine oil may also be used.

When replacing the blade, be sure to install the blade with the side of the blade marked "Bottom" (or with part number) facing the ground when the mower is in the operating position. Make certain key is in place on the blade spindle.

Blade Mounting Torque

3/8″ Dia. Bolt 375 in. lb. min., 450 in. lb. max.
5/16″ Dia. Bolt 150 in. lb. min., 250 in. lb. max.

To insure safe operation of your unit, ALL nuts and bolts must be checked periodically for correct tightness.

FUEL SHUT-OFF VALVE AND FILTER

The valve and filter is located on the bottom of the gasoline tank. Turn the valve knob in to shuft off the fuel flow. Turn the valve knob out to operate the rider.

The entire valve can be pulled out to clean the filter. When reassembling, place the grommet into the gasoline tank first. Then push the valve all the way in. See figure 49.

NOTE

Be careful not to damage the filter screen on the valve.

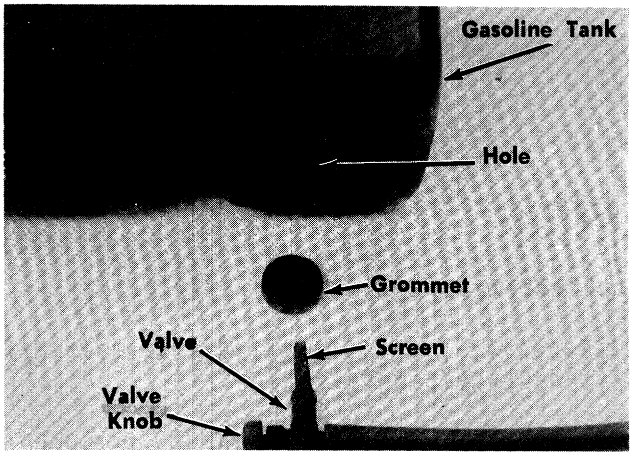


FIGURE 49.

BELT REMOVAL AND REPLACEMENT

Preparation

WARNING

Disconnect the spark plug wire and ground it against the engine.

1. To prevent gasoline from leaking from the engine, remove the gasoline cap, place a piece of plastic film on the neck of the gasoline tank and screw on the cap.
2. Close the fuel shut-off valve located under the gasoline tank. See figure 50.
3. Remove the grass catcher.
4. Remove the battery.
5. Depress the clutch and lock it.
6. Lift the front end of the rider up and rest it on the rear frame. It will balance in this position.
7. Do not leave the mower in this position any longer than necessary as oil may get into the cylinder head. If this occurs, remove the spark plug and crank the engine to clear the oil.

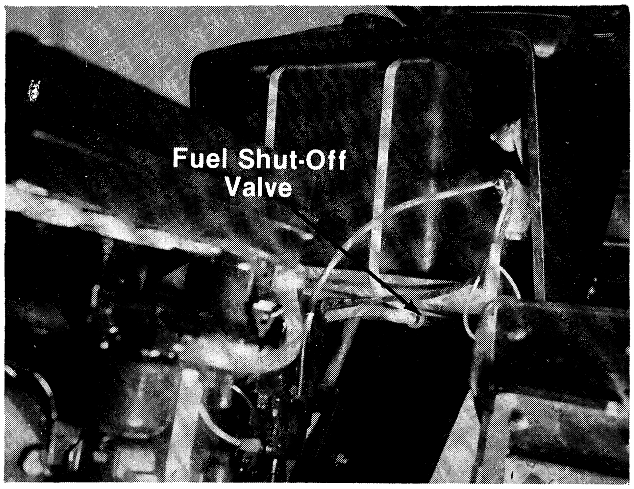

Fuel Shut-Off Valve

FIGURE 50.

Deck Belt Removal

1. Place the Blade Engagement Lever in the disengaged position.
2. Remove the two shoulder bolts by the engine pulley. See figure 51.

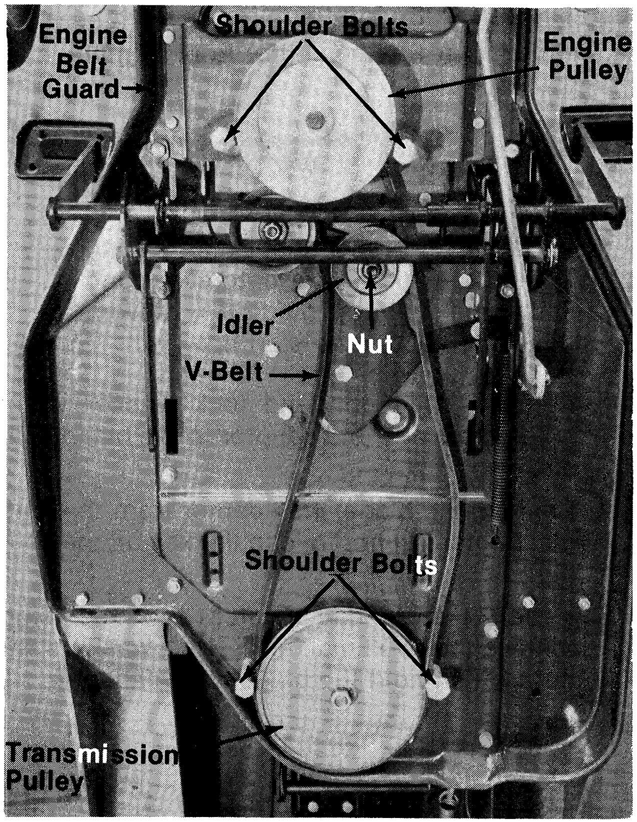

Engine Belt Guard
Shoulder Bolts
Engine Pulley
Idler
Nut
V-Belt
Shoulder Bolts
Transmission Pulley

FIGURE 51.

3. Remove the belt keeper on the cutting deck. See figure 52.
4. Remove the nut from the idler on the cutting deck and remove the idler. See figure 52.

NOTE

The long side of the hub on the V-idler goes towards the deck.

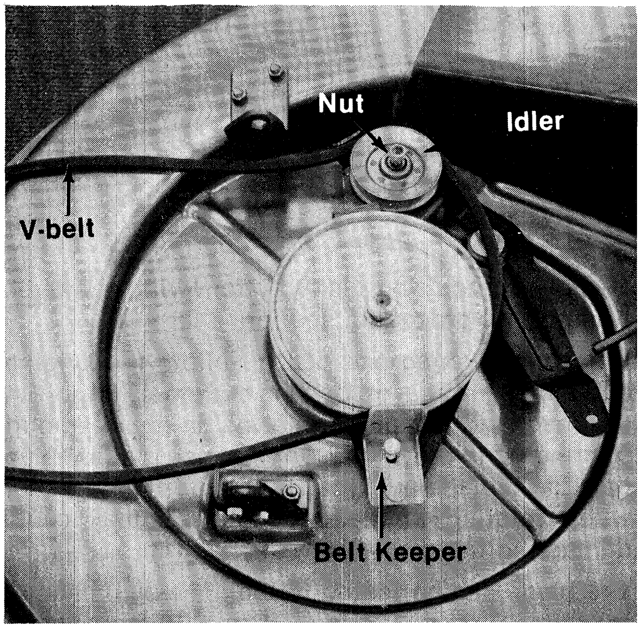

Nut
Idler
V-belt
Belt Keeper

FIGURE 52.

5. Remove the two shoulder bolts from the engine pulley. See figure 51.
6. Remove the belt from the engine pulley.
7. Depress the clutch pedal and lock it in the disengaged position.
8. Remove the engine belt guard. See figure 51.
9. Remove the nut on the V-idler and slide the idler off the bracket. See figure 51.

NOTE

The long side of the hub on the idler goes towards the frame.

10. Remove the two shoulder bolts by the transmission pulley. See figure 51.
11. Remove the nut on the transmission pulley and remove the pulley.

NOTE

The short side of the hub on the pulley goes towards the frame.

12. Remove the belt and reassemble with a new belt.
13. Remove plastic from beneath gasoline cap.

BATTERY REMOVAL OR INSTALLATION

WARNING

When removing the battery, follow this order of disassembly to prevent the screwdriver from shorting against the frame.

1. Remove the Negative cable.
2. Remove the Positive cable.

To install a battery:

1. Attach the Positive cable.
2. Attach the Negative cable.

JUMP STARTING

1. Attach the first jumper cable from the Positive terminal of the good battery to the Positive terminal of the dead battery.
2. Attach the second jumper cable from the Negative terminal of the good battery to the FRAME OF THE UNIT WITH THE DEAD BATTERY.

WARNING

Failure to use this starting procedure could cause sparking, and the gas in either battery could explode.

BATTERY MAINTENANCE

1. Check periodically (every two weeks or before and after charging) to be sure electrolyte level is above the lowest line on battery. Add only distilled water or good quality drinking water. NEVER add additional acid or other chemicals to battery after initial activation.
2. The battery should be checked with a hydrometer after every 25 hours of operation. If the specific gravity is less than 1.225, remove battery and recharge.
3. Coat the terminals and exposed wiring with a thin coat of grease or petroleum jelly for longer service and protection against electrolyte corrosion.
4. The battery should be kept clean. Any deposits of acid should be neutralized with soda and water. Be careful not to get this solution in the cells.

BATTERY STORAGE

1. Charge battery using normal methods. NEVER store discharged battery as it will not recover.
2. Store in cold, dry place.
3. Recharge battery whenever the specific gravity is less than 1.225, before returning to service, or every two months, whichever occurs first.

COMMON CAUSES FOR BATTERY FAILURE ARE:

1. Overcharging
2. Undercharging
3. Lack of water
4. Loose hold downs and/or corroded connections
5. Excessive loads
6. Battery electrolyte substitutes
7. Freezing of electrolyte

NOTE

THESE FAILURES DO NOT CONSTITUTE WARRANTY.

OFF-SEASON STORAGE

If the machine is to be inoperative for a period longer than 30 days, the following precautions are recommended:

1. Working outdoors, drain all fuel from the fuel tank. Use a clean dry cloth to absorb the small amount of fuel remaining in the tank, then run the engine until all fuel in carburetor is exhausted.

   WARNING

   Do not drain fuel while smoking, or if near an open fire.

2. Drain all the oil from the crankcase (this should be done after the engine has been operated and is still warm) and refill the crankcase with clean new oil.
3. Disconnect the spark plug wire and remove the spark plug from the cylinder. Pour about six drops of engine oil into the cylinder, and then pull the recoil starter several times to spread the oil on the cylinder wall. Replace the spark plug, but DO NOT connect the wire.
4. Clean the engine and the entire mower thoroughly.
5. Lubricate all lubrication points indicated on page 21. Then wipe the entire machine with an oiled rag in order to protect the surfaces.

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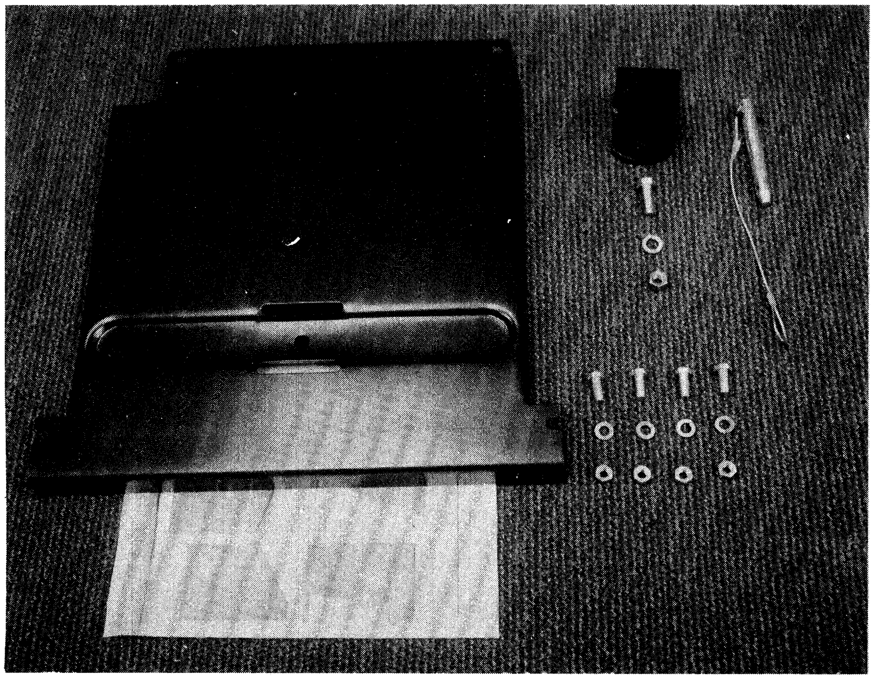
131-526A



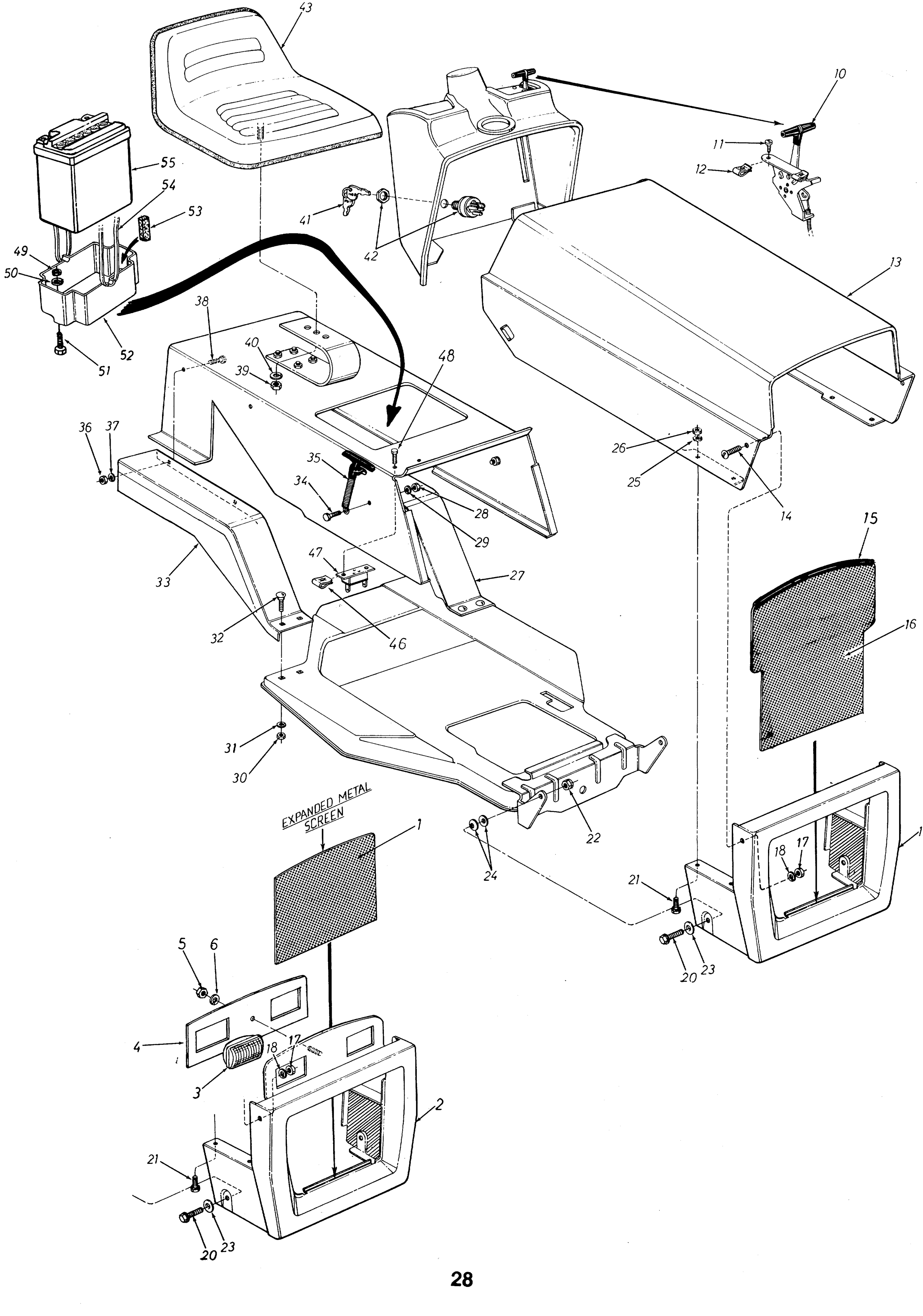
PARTS LIST FOR MODELS 131-525A AND 131-526A

REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART
1	12896		Hitch Plate	
2	12895		Hitch Bracket	
3	09389		Hitch Pin	
4	710-0253		Hex Scr. 3/8-16 x 1″ Lg.*	
5	736-0169		L-Wash. 3/8″ Scr.*	
6	712-0798		Hex Nut 3/8-16 Thd.*	
7	710-0118		Hex Scr. 5/16-18 x .75″ Lg.*	
8	736-0119		L-Wash. 5/16″ Scr.*	
9	712-0267		Hex Nut 5/16-18 Thd.*	

*For faster service obtain standard nuts, bolts and washers locally. If these items cannot be obtained locally, order by part number and size as shown on parts list.

131-525A
131-526A

IF YOU WRITE TO US ABOUT THIS ARTICLE OR IF YOU ORDER REPLACEMENT PARTS ALWAYS MENTION THIS MODEL & SERIAL NO
MODEL



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EXPANDED METAL SCREEN
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131-525A

131-526A

PARTS LIST FOR MODELS 131-525A AND 131-526A

REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART
1	12903		Screen—Grille (526A)	
2	12901	—462	Grille Ass'y. (526A)	
3	725-0417		Head Light (526A)	
4	10795		Head Light Retainer (526A)	
5	712-0121		Hex Nut #10-24 Thd.	
6	736-0722		L-Wash. #10 I.D.	
10	746-0127		Throttle Control Ass'y. Comp. 14.0″ Lg.	
11	710-0351		Truss Hd. Mach. B-Tapp. Scr. #10 x .50″ Lg.	
12	712-0344		Speed Nut 10Z "U"-Type	
13	12451	—462	Hood—Front	
14	710-0286		Truss Hd. Mach. Scr. ¼-20 x .50″ Lg.*	
15	731-0130		Extruded "U"-Channel 22.50″ Lg. (525A)	
16	12475		Screen—Grille (525A)	
17	712-0287		Hex Nut ¼-20 Thd.*	
18	736-0329		L-Wash. ¼″ Scr.*	
19	12456	—462	Grille Ass'y. (525A)	
20	710-0253		Hex Scr. 3/8-16 x 1.00″ Lg.*	
21	710-0211		Hex Sems Scr. ¼-20 x .62″ Lg.*	
22	712-0375		Hex Cent. L-Nut 3/8-16 Thd.	
23	736-0140		Fl-Wash. .385 I.D. x .630 O.D. x .056	
24	736-0105		Bell-Wash. .400 I.D. x .88 O.D.	
25	736-0329		L-Wash. ¼″ Scr.*	
26	712-0287		Hex Nut ¼-20 Thd.*	
27	12715	—462	Fender Ass'y. L.H.	
28	712-0287		Hex Nut ¼-20 Thd.*	
29	736-0329		L-Wash. ¼″ Scr.*	
30	712-0287		Hex Nut ¼-20 Thd.*	
31	736-0329		L-Wash. ¼″ Scr.*	
32	710-0134		Carriage Bolt ¼-20 x .62″ Lg.*	
33	12712	—462	Fender Ass'y. R.H.	
34	710-0258		Hex Scr. ¼-20 x .62″ Lg.*	
35	723-0296		Hood Lock Ass'y.	
36	712-0121		Hex Nut 10-24 Thd.*	
37	736-0147		Wash. #10 Scr. Ext.*	
38	710-0425		Truss Hd. Mach. Scr. 10-24 x .62″ Lg.*	
39	712-0206		Hex Nut ½-13 Thd.*	
40	736-0921		L-Wash. ½″ Scr.*	
41	725-0201		Ignition Key	
42	725-0267		Ignition Switch	
43	757-0264		Seat Ass'y.—Comp.	
46	726-0156		Speed Nut 10-24	
47	725-0459		Circuit Breaker	
48	710-0425		Truss Hd. Mach. Scr. #10-14 x .62″ Lg.*	
49	712-0287		Hex Nut ¼-20 Thd.*	
50	736-0142		Flat Washer	
51	710-0377		Hex Sems Bolt ¼-20 x .62″ Lg.	
52	731-0534		Battery Box	N
53	722-0135		PVC Foam 1″ x 2″ x ½″	
54	735-0204		Rubber Band	N
55	725-0514		12V Battery	

*For faster service obtain standard nuts, bolts and washers locally. If these items cannot be obtained locally, order by part number and size as shown on parts list.

(462—Red Flake)

When ordering parts, if color or finish is important use the appropriate color code shown above. (e.g. Red Flake Finish—12451 (462).)

NOTE: The engine is not under warranty by the mower manufacturer . . . If repairs or service is needed on the engine, please contact your nearest authorized engine service outlet. Check the "Yellow Pages" of your telephone book under "Engines—Gasoline."

Find It Fast In The Yellow Pages

NOTE

This instruction manual covers various models and all specifications shown do not necessarily apply to your model. Specifications subject to change without notice or obligation.

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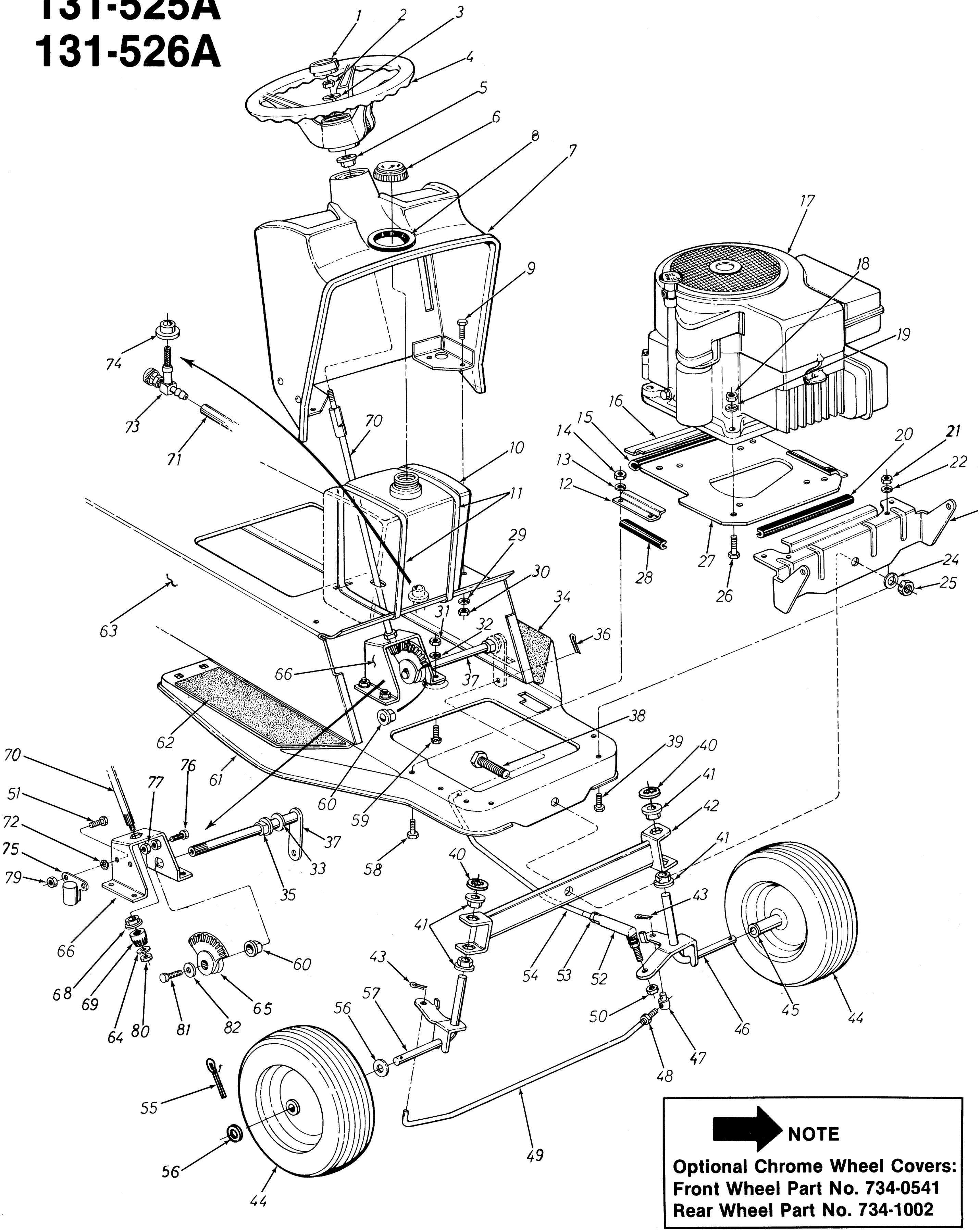

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NOTE

Optional Chrome Wheel Covers:
Front Wheel Part No. 734-0541
Rear Wheel Part No. 734-1002

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PARTS LIST FOR MODELS 131-525A AND 131-526A

REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART
1	731-0220		Steering Wheel Cap	
2	712-0158		Hex Cent. L-Nut 5/16-18 Thd.	
3	736-0242		Bell. Wash. .345 I.D. x .88 O.D.	
4	731-0219		Steering Wheel	
5	748-0227		Hex Flange Bushing .62″ I.D.	
6	723-0155		Fuel Gauge—Cap	
7	12602		Dash Panel Ass'y. (525A)	
	12909		Dash Panel Ass'y. (526A)	
8	735-0179		Rubber Grommet (Fuel Tank Neck)	
9	710-0211		Hex Sems Scr. ¼-20 x .62″ Lg.*	
10	751-0172		Fuel Tank	
11	726-0153		Cable Tie (Fuel Tank)	
12	12505		Shock Brkt. 4.50″ Lg.	
13	736-0329		L-Wash. ¼″ Scr.*	
14	712-0287		Hex Nut ¼-20 Thd.*	
15	735-0176		Engine Mtg. Extrus. 9.25″ Lg.	
16	12504		Shock Brkt. 10″ Lg.	
17	8 H.P.		Engine (B & S 190705-1131-01)	
18	712-0123		Hex Nut 5/16-24 Thd.*	
19	736-0119		L-Wash. 5/16″ Scr.*	
20	735-0177		Engine Mtg. Extrusion 7.00″ Lg.	
21	712-0267		Hex Nut 5/16-18 Thd.*	
22	736-0119		L-Wash. 5/16″ Scr.*	
23	12467	—462	Front Pivot Bracket	
24	736-0158		L-Wash. 5/8″ Scr.*	
25	712-0923		Hex Cent. L-Nut 5/8-18 Thd.	
26	710-0158		Hex Scr. 5/16-24 x 1.25 H.T.	
27	12463		Engine Base Plate	
28	735-0178		Engine Mtg. Extrusion 4.00″ Lg.	
29	736-0329		L-Wash. ¼″ Scr.*	
30	712-0287		Hex Nut ¼-20 Thd.*	
31	712-0267		Hex Nut 5/16-18 Thd.*	
32	736-0119		L-Wash. 5/16″ Scr.*	
33	736-0134		Fl-Wash. .812 I.D. x 1.38 O.D. x .100	
34	723-0307		Foot Pad—L.H.	
35	741-0199		Flange Brg. w/Flats	
36	714-0507		Cotter Pin 3/32″ Dia. x .75″ Lg.*	
37	12815		Steering Arm Ass'y.	
38	710-0622		Hex Scr. 5/8-18 x 1.62″ Lg.	
39	710-0198		Hex Sems Scr. 5/16-18 x .75″ Lg.*	
40	726-0159		Push Nut	
41	748-0227		Hex Flange Bushing .62″ I.D.	
42	13274	—462	Pivot Bar Ass'y.	
43	714-0474		Cotter Pin 1/8″ Dia. x .75″ Lg.*	
44	734-0949		Front Wheel Ass'y.—Comp. 11.0 x 4.0	
45	741-0313		Hex Flange Bearing	
46	12491	—462	Front Axle Ass'y.—L.H.	
47	711-0198		Pivot Bushing	
48	712-0711		Hex Jam Nut 3/8-24 Thd.*	
49	747-0144		Tie Rod	
50	712-0116		Hex Ins. L-Nut 3/8-24 Thd.	
51	710-0289		Hex Scr. ¼-20 x .50″ Lg.*	
52	723-0156		Ball Joint Ass'y.	
53	712-0711		Hex Jam Nut 3/8-24 Thd.*	
54	747-0158		Drag Link	
55	714-0470		Cotter Pin 1/8″ Dia. x 1.25″ Lg.*	
56	736-0156		Fl-Wash. .630 I.D. x 1.120 O.D. x .100	
57	12492	—462	Front Axle Ass'y.—R.H.	
58	710-0211		Hex Sems Scr. ¼-20 x .62″ Lg.*	
59	710-0198		Hex Sems Scr. 5/16-18 x .75″ Lg.*	
60	741-0199		Flange Brg. w/Flats	
61	12600	—462	Front Frame Ass'y.	
62	723-0306		Foot Pad—R.H.	
63	12450	—462	Rear Frame	
64	736-0264		Fl-Wash. 5/16″ Scr.	
65	748-0236		Side Gear	
66	12851		Steering Gear Support Ass'y.	
68	748-0228		Hex Flange Bushing .50″ I.D.	
69	748-0237		Pinion Gear	
70	738-0325		Steering Shaft	
71	751-0173		Hose 17″ Lg. Clear	
72	736-0222		Ext. L-Wash. ¼″ Scr.*	
73	751-0171		Fuel Shut-Off Valve	
74	735-0149		Bushing—Fuel Tank	
75	725-0530		Solenoid	
76	710-0670		Hex Scr. Nylon 3/8-16 x 1.25″ Lg.	
77	712-0375		Hex Cent. L-Nut 3/8-16 Thd.	
79	712-0287		Hex Nut ¼-20 Thd.*	
80	712-0237		Hex Cent. L-Nut 5/16-24 Thd.	
81	710-0180		Hex Scr. 3/8-24 x .75″ Lg.*	
82	736-0105		Bell. Wash.	

*For faster service obtain standard nuts, bolts and washers locally. If these items cannot be obtained locally, order by part number and size as shown on parts list.

(462—Red Flake)
(609—Burgundy)
(610—Rose)

When ordering parts, if color or finish is important use the appropriate color code shown above. (e.g. Red Flake Finish 12600 (462).)

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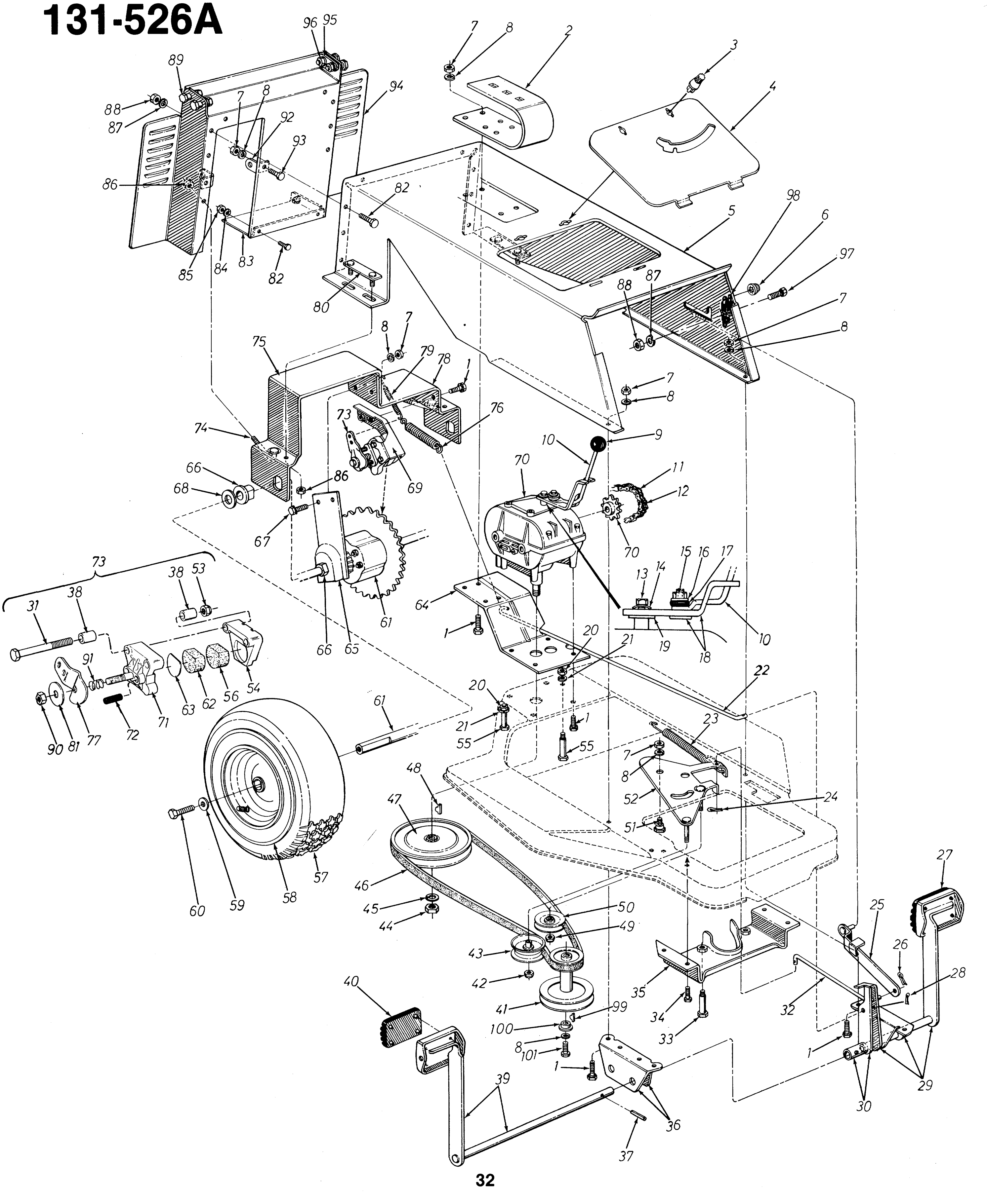
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PARTS LIST FOR MODELS 131-525A AND 131-526A

REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART
1	710-0198		Hex Sems Scr. 5/16-18 x .75″ Lg.*	
2	732-0256		Seat Spring 3.25″ High	
3	726-0151		Fastener (Self Ret. ¼ Turn)	
4	12471	—462	Rear Frame Cover	
5	12450	—462	Rear Frame	
6	726-0121		Push Cap .25″ Dia.—Black	
7	712-0267		Hex Nut 5/16-18 Thd.*	
8	736-0119		L-Wash. 5/16″ Scr.*	
9	720-0165		Ball Knob	
10	11545		Shift Lever—Transmission	
11	713-0189		#420 Chain ½″ Pitch x 77 Links	
12	713-0154		#420 Master Link	
13	710-0513		Hex Scr. ¼-28 x .62″ Lg. (Lock)	
14	736-0270		Bell. Wash. .25″ I.D. x .88 O.D. x .062	
15	712-0158		Hex Cent. L-Nut 5/16-18 Thd.	
16	736-0159		Fl-Wash. .344 I.D. x .88 O.D.	
17	735-0126		Rubber Wash. .33 I.D. x .87 O.D.	
18	11548		Shift Lever Brkt. Ass'y.	
19	717-0234		Hardened Wash. 1.00 O.D. (Special)	
20	712-0798		Hex Nut 3/8-16 Thd.*	
21	736-0169		L-Wash. 3/8″ Scr.*	
22	747-0155		Brake Rod	
23	732-0233		Extension Spring	
24	726-0135		Cap Speed Nut 5/16″ Rod	
25	12506		Clutch Lockout Ass'y.	
26	714-0507		Cotter Pin 3/32″ Dia. x .75″ Lg.*	
27	12379		Clutch Pedal Pad	
28	714-0507		Cotter Pin 3/32″ Dia. x .75″ Lg.*	
29	12539		Clutch Pedal and Brkt. Ass'y.	
30	12486		Brake Lever Ass'y.	
31	710-0378		Hex Scr. 5/16-18 x 2.50″ Lg.	
32	747-0156		Clutch Rod	
33	738-0215		Shld. Scr. .498″ Dia. x 3.00″ Lg.	
34	710-0211		Hex Sems Scr. ¼-20 x .62″ Lg.*	
35	12488		Engine Belt Guard Ass'y.	
36	12534		Pedal "U" Brkt.—R.H.	
37	715-0114		Spring Pin Spiral .25″ Dia. x 1.50″ Lg.	
38	HH-11-03527		Bushing	
39	12543		Brake Pedal Shaft Ass'y.	
40	12378		Brake Pedal Pad	
41	756-0246		Two Step Engine Pulley	
42	712-0116		Hex Ins. L-Nut 3/8-24 Thd.	
43	756-0217		Fl-Idler w/Flanges 2.75″ Dia.	
44	712-0922		Hex Jam Nut ½-20 Thd.*	
45	736-0921		L-Wash. ½″ Scr.*	
46	754-0198		"V"-Belt ½″ x 62″ Lg. (Drive)	
47	756-0174		Transmission Split Pulley .50″ I.D.	
48	714-0129		#4 Hi-Pro Key 3/32 x 5/8″ Dia.	
49	712-0116		Hex Ins. L-Nut 3/8-24 Thd.	
50	756-0116		"V"-Idler	
51	738-0140		Shdl. Scr. .437″ Dia. x .180	
52	12484		Idler Brkt. Ass'y.	
53	712-0158		Hex Cent. L-Nut 5/16-18 Thd.	
54	HH-12-03293		Casting—Carrier	
55	738-0129		Shld. Scr. .498″ Dia. x 2.00″ Lg.	
56	HH-15-03149		Pad—Friction	
57	734-0715		Rear Wheel Ass'y.—Comp. 14.5 x 4.5	
	734-0714		Rear Wheel Tire Only 14.5 x 4.5	
58	734-0517		Rear Wheel Rim Only	
59	736-0242		Bell. Wash. .345 I.D. x .88 O.D.	
60	710-0627		Hex Cent. Lock Scr. 5/16-24 x .75″ Lg. H.T.	
61	717-0327		Differential Ass'y. Comp.	
62	HH-15-02124		Pad—Friction	
63	HH-03-03303		Disc—Back-up	
64	12853		Seat Support Ass'y.	
65	12508		Rear Axle Plate	
66	741-0199		Flange Brg. w/Flats .753 I.D.	
67	710-0322		Hex Sems Scr. 5/16-18 x 1.00″ Lg.*	
68	736-0134		Fl-Wash. .812 I.D. x 1.38″ O.D. x .100	
69	12482		Disc Brake Brkt. Ass'y.	
70	—		Transmission (Five Speed)	
71	HH-12-03292		Casting—Cam	
72	HH-05-03034		Push Pin	
73	761-0130		Disc Brake Ass'y.—Comp.	
74	710-0437		Chain Adj. Link 5/16-18 x 4.38″ Lg.	
75	12460		Rear Axle Brkt.—R.H.	
76	732-0245		Brake Spring	
77	HH-18-03493		Cam Lever	
78	12459		Rear Axle Brkt.—L.H.	
79	732-0157		Brake Return Spring	
80	10360		Plate Ass'y. Axle Bolt	
81	HH-03-03032		Washer	
82	710-0425		Truss Hd. Mach. Scr. 10-24 x .62″ Lg.	
83	12537		Baffle Plate	
84	736-0147		Ext. L-Wash.	
85	712-0121		Hex Nut 10-24 Thd.*	
86	712-0429		Hex Ins. L-Nut 5/16-18 Thd.	
87	736-0329		L-Wash. ¼″ Scr.*	
88	712-0287		Hex Nut ¼-20 Thd.*	
89	738-0143		Shld. Scr. .498 Dia. x .330 Lg.	
90	712-0134		Hex Top L-Nut	
91	HH-06-03031		Spring	
92	12541		Chute Pivot Brkt.	
93	710-0198		Hex Sems Scr. 5/16-18 x .75″ Lg.*	
94	12544	—452	Grass Catcher Adapter	
95	736-0169		L-Wash. 3/8″ Scr.*	
96	712-0798		Hex Nut 3/8-16 Thd.*	
97	710-0289		Hex Scr. ¼-20 x .50″ Lg.*	
98	725-0268		Safety Switch	
99	714-0365		#6 Hi-Pro Key 5/32 x 5/8″ Dia.	
100	711-0572		Step Washer Special	
101	710-0151		Hex Scr. 3/8-24 x 2.00″ Lg.*	

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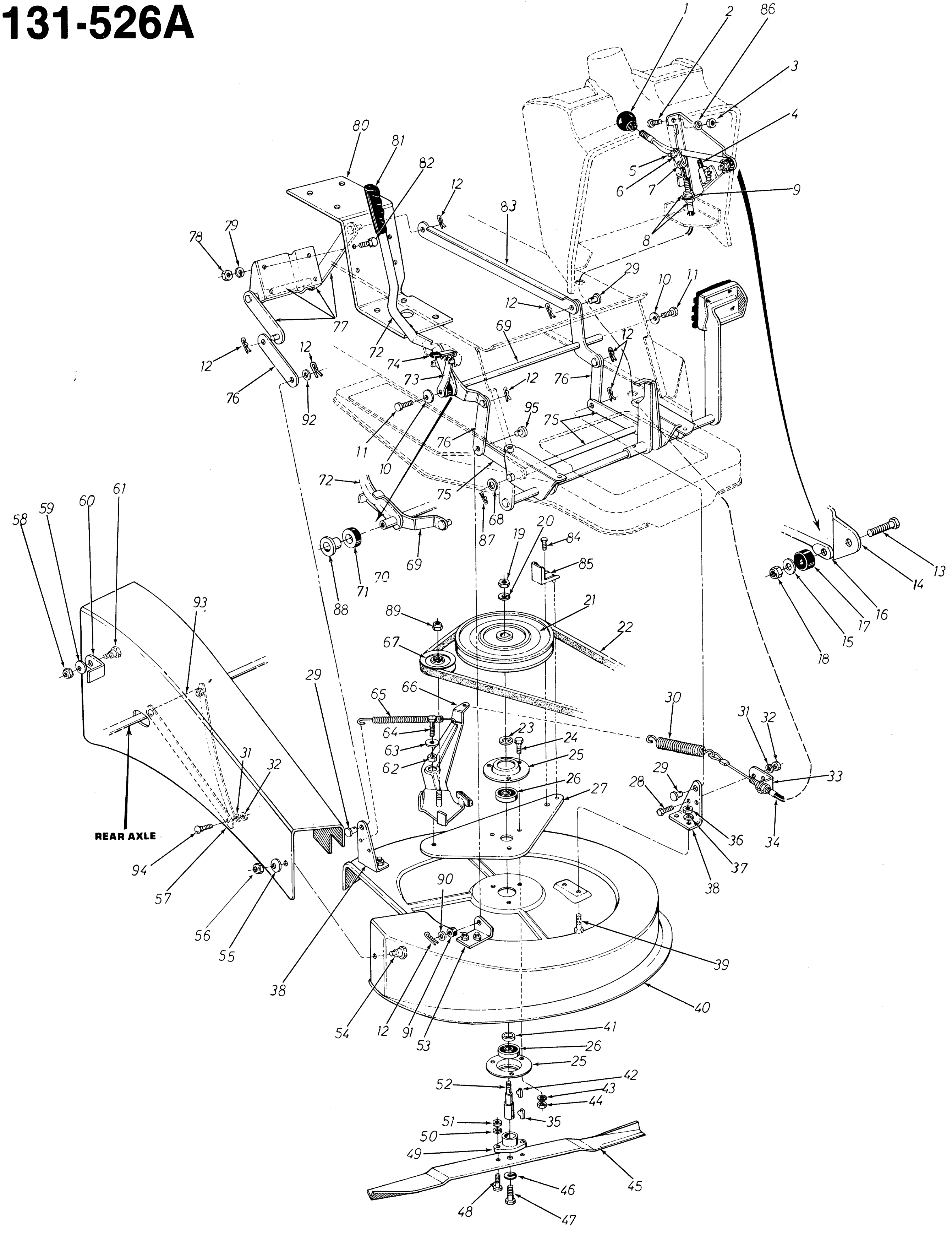

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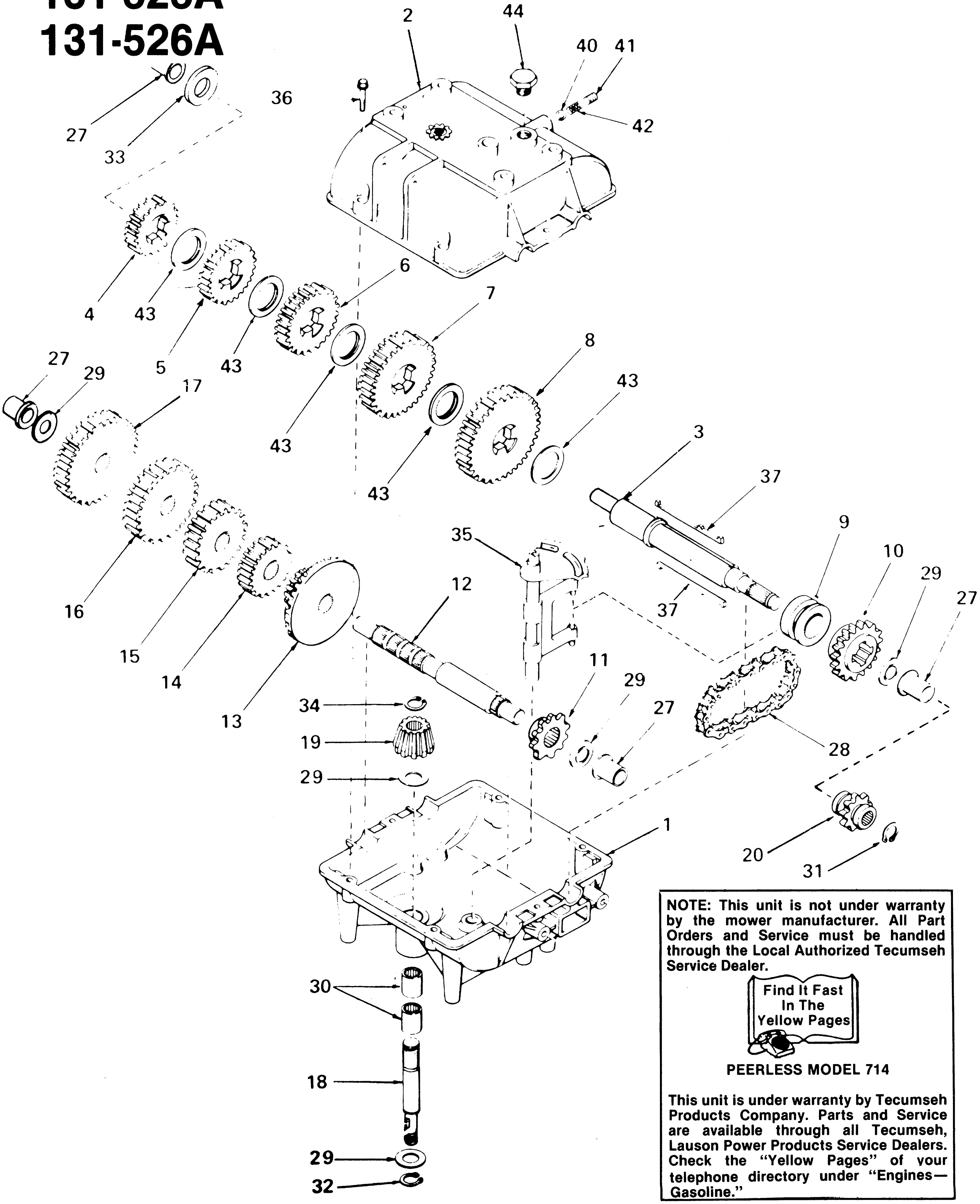
PARTS LIST FOR MODELS 131-525A AND 131-526A

REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART
1	720-0165		Ball Knob	
2	710-0286		Truss Mach. Scr. ¼-20 x .50″ Lg.*	
3	712-0287		Hex Nut ¼-20 Thd.*	
4	725-0465		Safety Switch (Blade Clutch)	
5	710-0282		Weld Pin .250 Dia. x .62″ Lg.	
6	726-0106		Push Cap .250 Dia.	
7	761-0145		Clevis	
8	712-0256		Hex Jam Nut 5/16-24 Thd.*	
9	736-0119		L-Wash. 5/16″ Scr.*	
10	736-0219		Bell. Wash. .400 I.D. x 1.110 O.D.	
11	710-0623		Hex Wash. Hd. Self-Tap Scr. 3/8-16 x .75″ Lg.	
12	714-0101		Internal Cot-Pin ½″ Dia.	
13	725-0581		Hex Scr. ¼-20 x 1.25″ Lg.*	
14	12476		Deck Clutch Control Brkt.	
15	736-0173		Fl-Wash. .280 I.D. x .750 O.D. x .063	
16	747-0157		Blade Clutch Lever	
17	735-0165		Rubber Washer	
18	712-0107		Hex Cent. L-Nut ¼-20 Thd.	
19	712-0261		Hex Nut 5/8-11 Thd.*	
20	736-0158		L-Wash. 5/8″ Scr.*	
21	756-0143		Deck Pulley	
22	754-0195		"V"-Belt "A" or ½″ x 54″ Lg.	
23	748-0168		Spacer	
24	710-0322		Hex Sems Scr. 5/16-18 x 1.00″ Lg.*	
25	08253		Bearing Housing	
26	741-0919		Ball Brg. .787 I.D. x 1.850 O.D.	
27	12453		Deck Belt Guard Plate	
28	710-0211		Hex Sems Scr. ¼-20 x .75″ Lg.*	
29	711-0332		Lift Brkt. Pin Special	
30	732-0180		Extension Spring .73 O.D. x 4.31″ Lg.	
31	736-0329		L-Wash. ¼″ Scr.*	
32	712-0287		Hex Nut ¼-20 Thd.*	
33	12509		Cable Bracket	
34	746-0253		Clutch Control Cable 26.88″ Lg.	
35	714-0365		#6 Hi-Pro Key 5/32 x 5/8″ Dia.	
36	712-0267		Hex Nut 5/16-18 Thd.*	
37	736-0119		L-Wash. 5/16″ Scr.*	
38	12531		Deck Bracket	
39	710-0451		Carriage Bolt 5/16-18 x .75″ Lg.*	
40	12455	—452	26″ Deck—Rear Discharge	
41	750-0142		Spacer .836 I.D. x 1.01 O.D. x .320 Lg.	
42	714-0388		#61 Hi-Pro Key 3/16 x 5/8″ Dia.	
43	736-0119		L-Wash. 5/16″ Scr.*	
44	712-0267		Hex Nut 5/16-18 Thd.*	
45	742-0194		26″ Blade	
46	736-0217		L-Wash. 3/8″ Scr. H.D.	
47	710-0459		Hex Scr. 3/8-24 x 1.50″ Lg. H.T.	
48	710-0117		Hex Scr. 5/16-24 x 1.00″ Lg. H.T.	
49	10769		Blade Adapter Kit	
50	736-0119		L-Wash. 5/16″ Scr.*	
51	712-0123		Hex Nut 5/16-24 Thd.*	
52	738-0292		Blade Spindle	
53	12532		Deck Bracket (Chute)	
54	738-0183		Shld. Scr. .500 Dia. x .170 Lg.	
55	736-0140		Fl-Wash. .385 I.D. x .88 O.D.	
56	712-0375		Hex Cent. L-Nut 3/8-16 Thd.	
57	12464	—452	Chute Ass'y.	
58	712-0429		Hex Ins. L-Nut 5/16-18 Thd.	
59	736-0242		Bell. Wash. .345 I.D. x .88 O.D.	
60	12541		Chute Pivot Brkt.	
61	738-0140		Shld. Scr. .437 I.D. x .180″ Lg.	
62	750-0258		Spacer .315 I.D. x .75 O.D. x .370 Lg.	
63	736-0231		Fl-Wash. .312 I.D. x 1.12 O.D. x .12	
64	710-0376		Hex Scr. 5/16-18 x 1.00″ Lg.	
65	732-0308		Extension Spring	
66	12469		Deck Idler Brkt. Ass'y.	
67	756-0116		V-Idler Pulley	
68	736-0116		Fl-Wash. .630 I.D. x .930 O.D. x .060	
69	12472		Lift Handle Shaft Ass'y.	
71	735-0180		Rubber Wash.	
72	749-0174		Lift Handle	
73	12479		Lift Handle Stop	
74	11249		Height Adj. Knob	
75	12477		Lift Arm Shaft Ass'y.	
76	10317		Deck Link	
77	12502		Lift Pivot Brkt. Ass'y.	
78	712-0287		Hex Nut ¼-20 Thd.*	
79	736-0329		L-Wash. ¼″ Scr.*	
80	12853		Seat Support Ass'y.	
81	720-0157		Grip	
82	710-0597		Hex Sems Scr. ¼-20 x 1.00″ Lg.*	
83	12495		Connecting Link	
84	710-0627		Hex Wash. Hd. Self-Tap Scr. 5/16-24 x .75″ Lg.	
85	10426		Belt Keeper Ass'y.	
86	736-0329		L-Wash. ¼″ Scr.*	
87	714-0507		Cotter Pin 3/32″ Dia. x .75″ Lg.	
88	748-0176		Flange Brg. .62 I.D. x .87 O.D. x .63″ Lg.	
89	712-0116		Hex Ins. L-Nut 3/8-24 Thd.	
90	736-0160		Fl-Wash. .530 I.D. x .940 O.D. x .050	
91	735-0185		Rubber Wash. .531 I.D. x 1.00 O.D. x .120	
92	736-0192		Fl-Wash. .531 I.D. x .93 O.D. x .090	
93	12852		Chute Baffle	
94	710-0167		Carriage Bolt ¼-20 x .50″ Lg.*	
95	711-0310		Clevis Pin 1.060	

131-525A
131-526A

TRANSMISSION MODEL NO. PEERLESS 714



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NOTE: This unit is not under warranty by the mower manufacturer. All Part Orders and Service must be handled through the Local Authorized Tecumseh Service Dealer.

Find It Fast
In The
Yellow Pages

PEERLESS MODEL 714

This unit is under warranty by Tecumseh Products Company. Parts and Service are available through all Tecumseh, Lauson Power Products Service Dealers. Check the "Yellow Pages" of your telephone directory under "Engines—Gasoline."

131-525A
131-526A

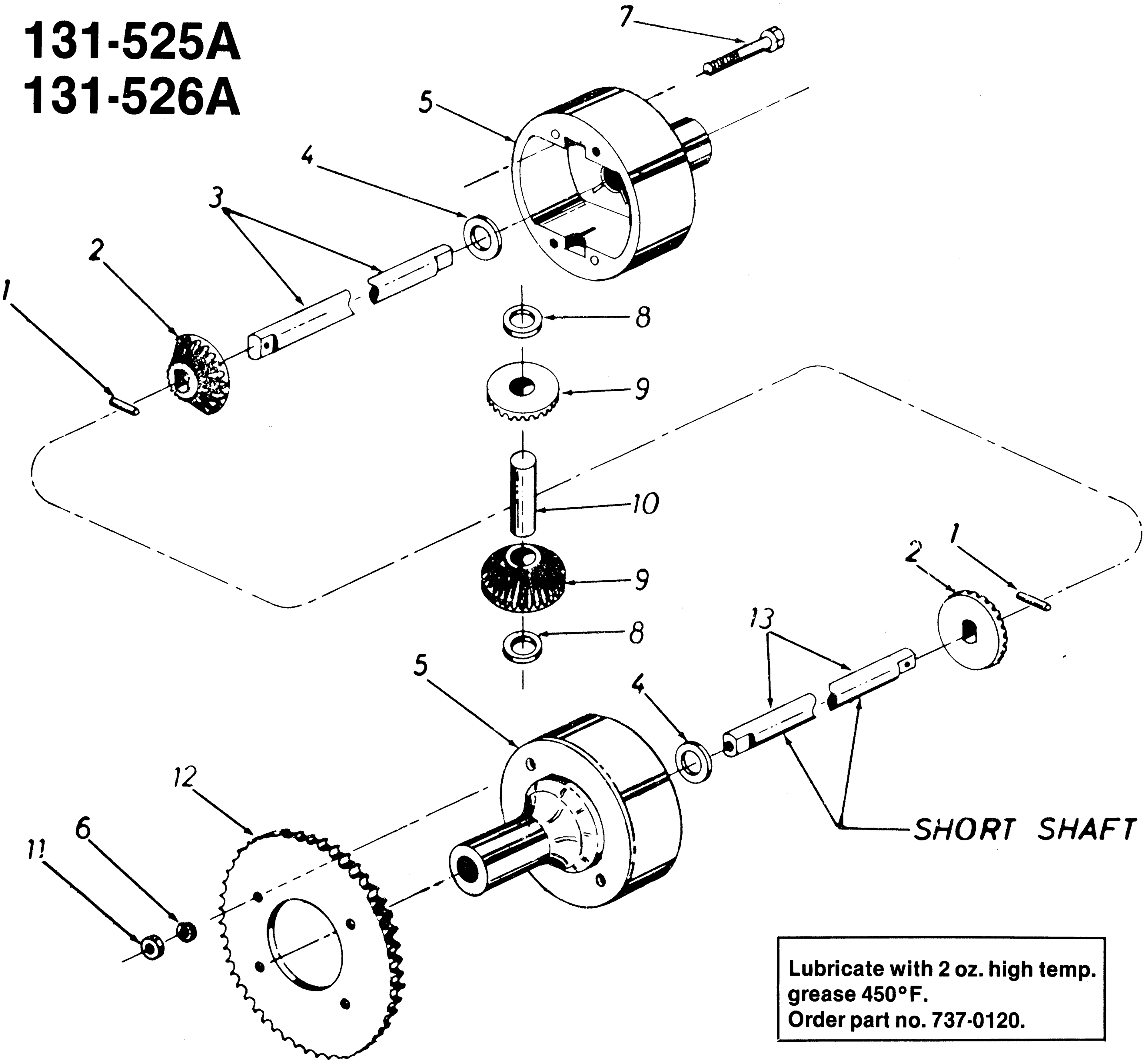
PARTS LIST FOR PEERLESS MODEL 714 TRANSMISSION

REF. NO.	PART NO.	DESCRIPTION
1	PE-770061	Case, Transmission
2	PE-772070	Cover, Transmission
3	PE-776166	Shaft, Output
4	PE-778121	Gear, Spur (20 Teeth)
5	PE-778122	Gear, Spur (22 Teeth)
6	PE-778123	Gear, Spur (25 Teeth)
7	PE-778124	Gear, Spur (30 Teeth)
8	PE-778125	Gear, Spur (35 Teeth)
9	PE-784266	Collar, Shift
10	PE-786060	Sprocket (14 Teeth)
11	PE-786061	Sprocket (10 Teeth)
12	PE-776134	Shaft, Counter
13	PE-778109	Gear, Bevel (42 Tooth & 15 Tooth spur gear)
14	PE-778126	Gear, Spur (20 Teeth)
15	PE-778127	Gear, Spur (25 Teeth)
16	PE-778128	Gear, Spur (28 Teeth)
17	PE-778129	Gear, Spur (30 Teeth)
18	PE-776140	Shaft, Input
19	PE-778113	Bevel Pinion, Input
20	PE-786049	Sprocket (8 Teeth)
27	PE-780105	Bushing, Flanged
28	PE-786062	Chain, Roller (No. 41 Chain, 22 Links)
29	PE-780072	Race, Thrust
30	PE-780106	Bearing, Needle
31	PE-792072	Ring, Retaining
32	PE-792035	Ring, Retaining
33	PE-780109	Washer
34	PE-788040	Ring, Retaining
35	PE-784271	Rod and Fork Ass'y., Shift
36	PE-792073	Screw, Hex Hd. Taptite, ¼-20 x 1¼
37	PE-792089	Key
40	PE-792077	Ball, Steel, 5/16″
41	PE-792078	Screw, Set, 3/8-16 x 3/8
42	PE-792079	Spring
43	PE-780108	Washer, Thrust
44	PE-792074	Plug

The engine is not under warranty by the mower manufacturer. If repairs or service is needed on the engine, please contact your nearest authorized engine service outlet. Check the "Yellow Pages" of your telephone book under "Engines — Gasoline."

Find It Fast
In The
Yellow Pages

131-525A
131-526A



**Lubricate with 2 oz. high temp. grease 450°F.
Order part no. 737-0120.**

PARTS LIST FOR DIFFERENTIAL ASSEMBLY 717-0327

REF. NO.	PART NO.	Qty. Req'd.	DESCRIPTION	NEW PART
1	715-0247	2	Spring Pin Spiral 3/16″ Dia. x 1.00″ Lg.	
2	748-0185	2	Gear—Double "D" Hole	
3	738-0302	1	Shaft—Long 15.11″ Lg.	
4	736-0188	2	Fl-Wash. .760 I.D. x 1.49 O.D.	
5	717-0341	2	Housing Half	
6	736-0119	2	L-Wash. 5/16″ Scr.*	
7	710-0363	2	Hex Scr. 5/16-24 x 4.00″ Lg.*	
8	736-0187	2	Fl-Wash. .640 I.D. x 1.24 O.D.	
9	748-0158	2	Gear—Round Hole	
10	711-0276	1	Drive Pin	
11	712-0237	2	Hex Cent. L-Nut 5/16-24 Thd.	
12	713-0162	1	Sprocket—48 Tooth	
13	738-0303	1	Shaft—Short 7.58″ Lg.	

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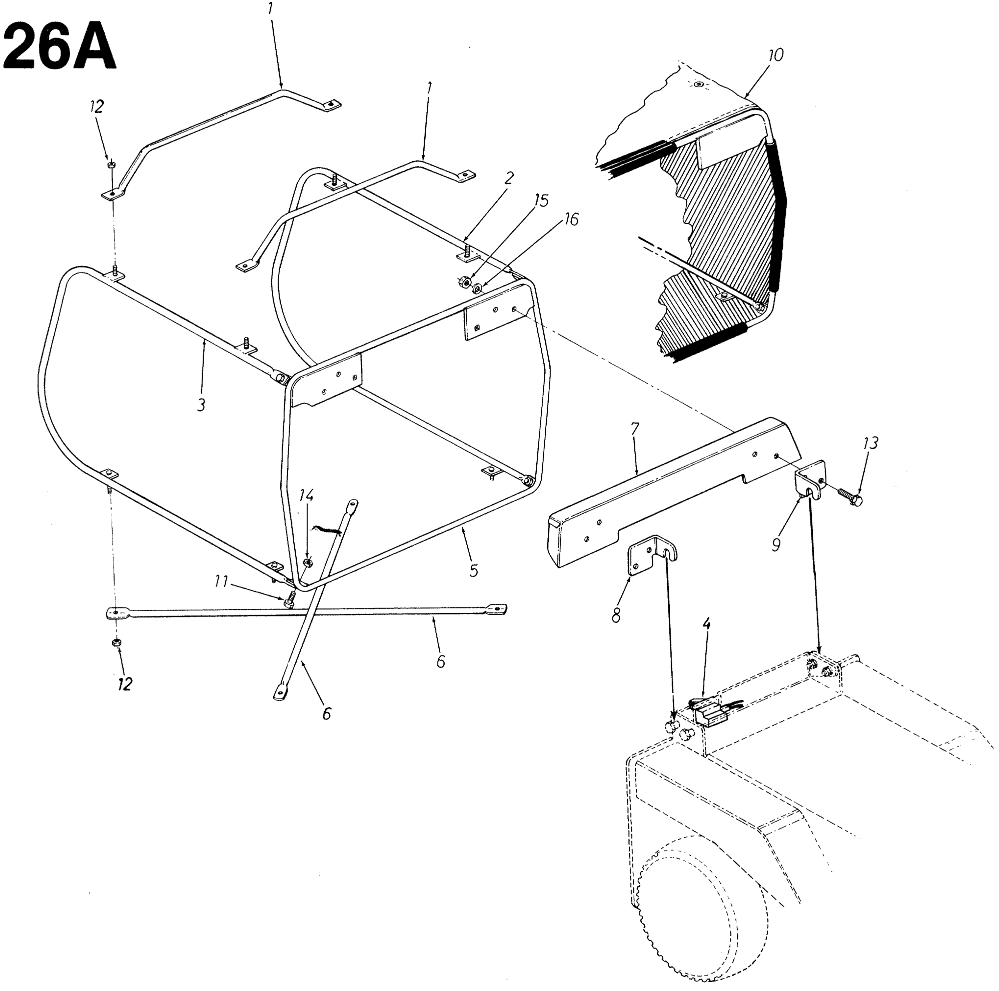
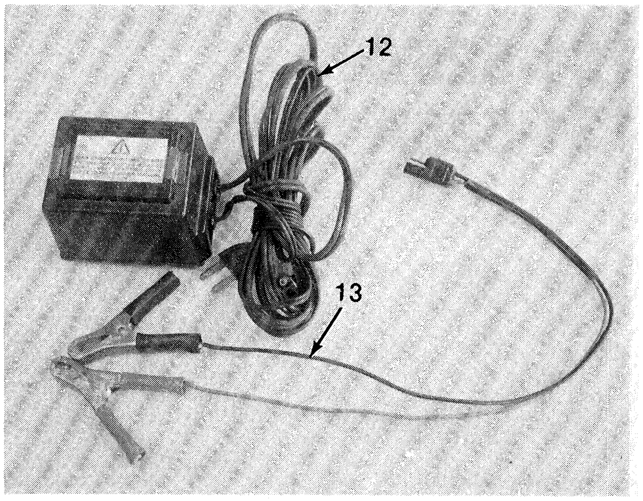


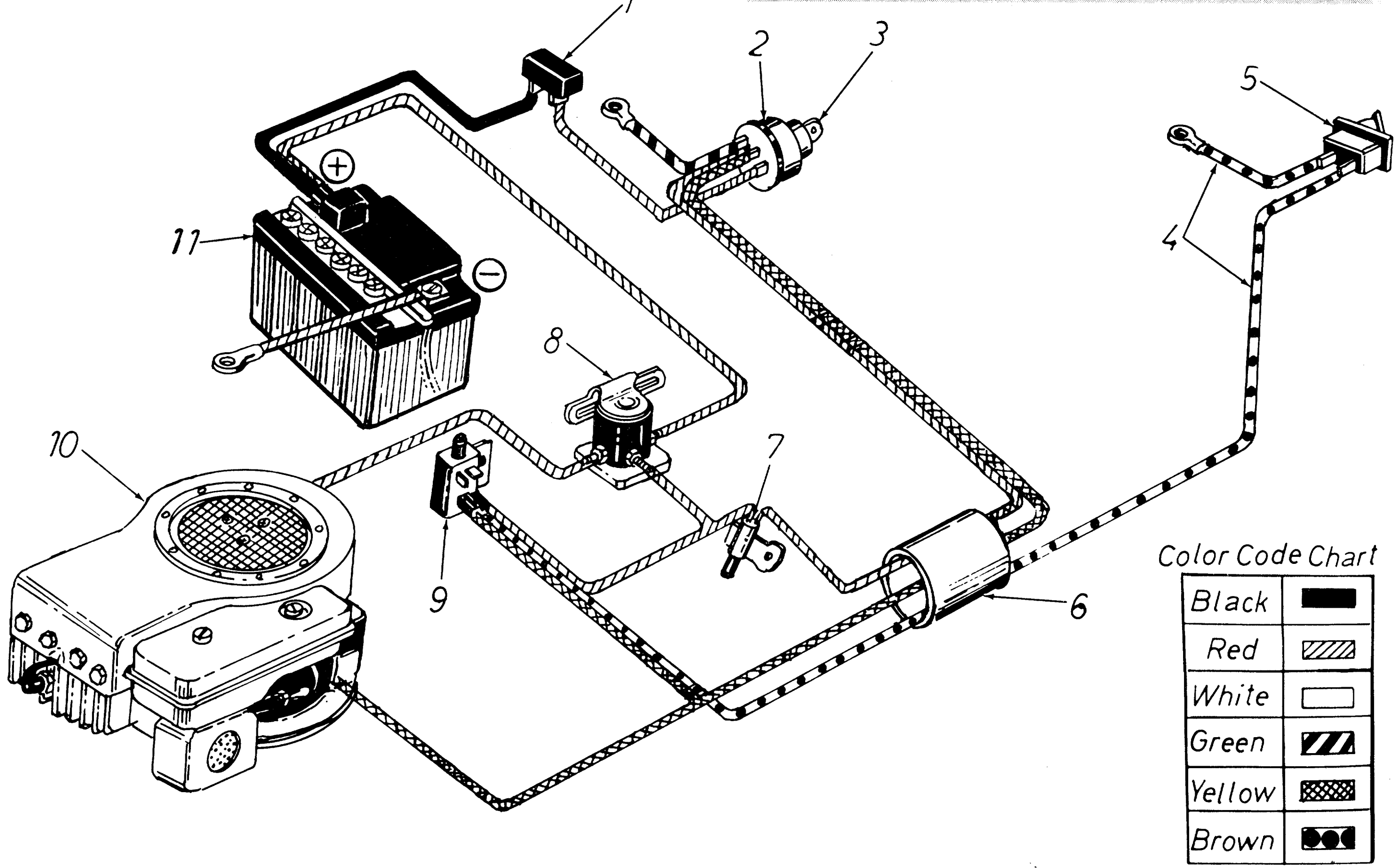
PARTS LIST FOR MODELS 131-525A AND 131-526A

REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART
1	749-0221		Catcher Handles	
2	12889		Catcher Side Frame Ass'y. L.H.	
3	12890		Catcher Side Frame Ass'y. R.H.	
4	725-0713		Safety Switch (Grass Catcher)	
5	12887		Catcher Frame Ass'y.	
6	749-0220		Bottom Cross Brace	
7	12891		Dust Cover	
8	12574		Hinge—R.H.	
9	12573		Hinge—L.H.	
10	764-0164		Grass Bag	
11	710-0258		Hex Scr. ¼-20 x .62″ Lg.*	
12	712-0107		Hex Cent. L-Nut ¼-20 Thd.	
13	710-0322		Hex Sems Scr. 5/16-18 x 1.00″ Lg.*	
14	712-0107		Hex Cent. L-Nut ¼-20 Thd.	
15	712-0267		Hex Nut 5/16-18 Thd.*	
16	736-0119		L-Wash. 5/16″ Scr.*	

*For faster service obtain standard nuts, bolts and washers locally. If these items cannot be obtained locally, order by part number and size as shown on parts list.

131-525A ONLY

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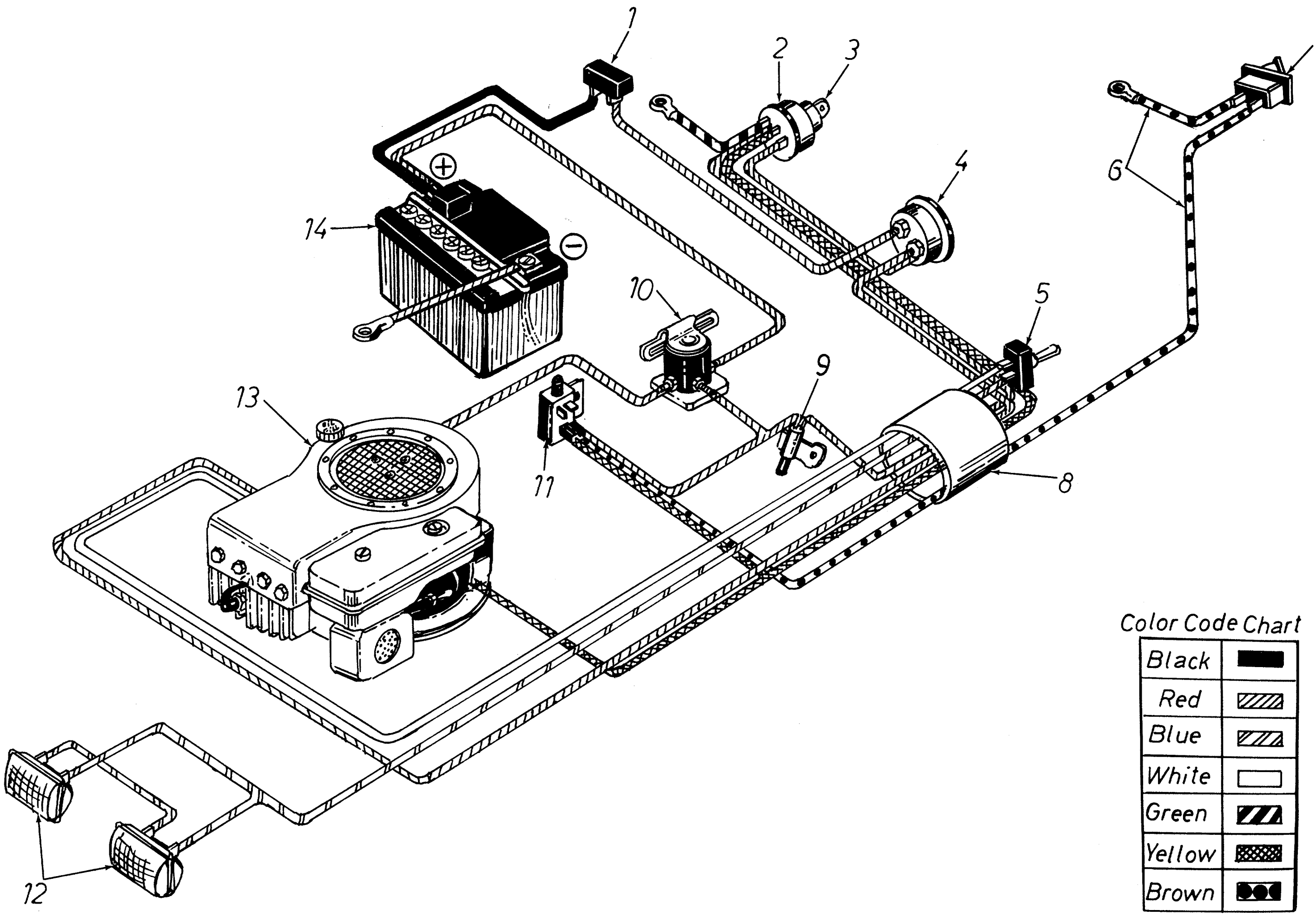
PARTS LIST FOR ELECTRICAL SYSTEM MODEL 131-525A ONLY

REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART
1	725-0459		Circuit Breaker	
2	725-0267		Ignition Switch	
3	725-0201		Ignition Key	
4	725-0712		Wire Lead	
5	725-0713		Safety Switch (Grass Catcher)	
6	725-0581		Wire Harness	
7	725-0268		Safety Switch (Drive)	
8	725-0530		Solenoid	
9	725-0465		Safety Switch (Blade)	
10	—		Engine	
11	725-0514		12-V Battery	
12	725-0507		Battery Charger	
13	725-0579		Charger Clip Adapter Wire	

131-526A ONLY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PARTS LIST FOR ELECTRICAL SYSTEM
MODEL 131-526A ONLY

REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART
1	725-0459		Circuit Breaker	
2	725-0267		Ignition Switch	
3	725-0201		Ignition Key	
4	725-0119		Ammeter	
5	725-0646		Headlight Switch	
6	725-0712		Wire Lead	
7	725-0713		Safety Switch (Grass Catcher)	
8	725-0657		Wiring Harness	
9	725-0268		Safety Switch (Drive)	
10	725-0530		Solenoid	
11	725-0465		Safety Switch (Blade)	
12	725-0417		Headlight	
13	—		Engine w/Dual Circuit Alternator	
14	725-0514		12-V Battery	

TESTING THE SAFETY CIRCUITS ON THE ELECTRIC START RIDER

CHECK FOR PROPER OPERATION
(Grass Catcher Attached)

A. Depress and lock the clutch in the disengaged position.

B. Place the blade disengagement lever in the disengaged position.

C. Turn the ignition key to the "START" position. The starter motor should crank.

NOTE

If the starter cranks, but the engine does not run, the problem is within the engine (no spark, no fuel, etc.), not with the safety interlock system.

D. With the engine running, engage the blade engagement lever. The engine should continue to run.

E. Lift the grass catcher until the grass catcher is at least one inch from the interlock switch located on the rear of the rider. The engine should stop.

F. Replace the grass catcher and restart the engine.

G. Turn the ignition key to the "OFF" position, the engine should stop.

ENGINE WILL NOT CRANK
(Battery Fully Charged)

1. Check to see that both wires (one large from the solenoid and one small from the harness) are attached to the positive terminal of the battery.
2. Check to see that the small red wire from the harness is attached to the primary terminal of the solenoid. The primary terminal is the smaller terminal on the solenoid. The solenoid is the black unit located on the side of the steering gear box.
3. Check the positive wire connections for tightness between the positive terminal of the battery and the solenoid and between the solenoid and the engine starter motor.
4. Check the ground wires between the negative terminal of the battery and the frame and between the base of the solenoid and the engine block.

WARNING

The following test procedures bypasses the safety interlock system. It is only to be used for testing purposes and the safety procedures MUST be followed. (Clutch disengaged, blade engagement lever in the disengaged position.)

5. Disconnect the spark plug wire and ground it against the engine block.
6. Disconnect the wire to the primary terminal on the solenoid (small wire).
7. Using an 18 gauge wire, connect one end to the positive terminal of the battery and TOUCH the other end to the primary terminal on the solenoid.
8. If the engine DOES NOT CRANK:
   A. Use 6 gauge wire and jump across the two large terminals on the solenoid.
   B. If the engine cranks, the solenoid is defective and should be replaced.
   C. If the engine does not crank, the problem is in the starter motor on the engine.

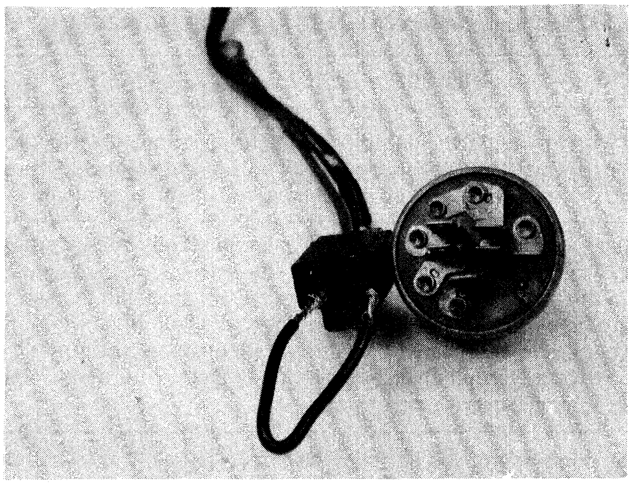
If The Engine DOES Crank:

A. Unplug the safety switch on the clutch and jump the two connectors. The blade engagement lever should be in the disengaged position. Turn the ignition key to the "START" position. If the engine cranks, replace the switch.

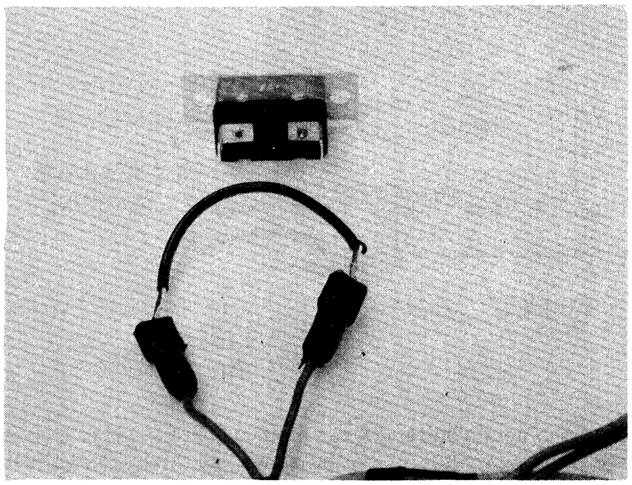
B. Unplug the two red wires on the blade engagement switch on the normally open circuit. Use the 18 gauge wire to jump the two connectors. Turn the ignition switch to the "START" position and depress the clutch pedal to activate the clutch switch. If the engine cranks, replace the switch.

C. Lock the clutch in the disengaged position. Place the blade engagement lever in the engaged postion. Use a piece of 18 gauge wire to jump the two terminals shown in the sketch. Engage the blade engagement lever. If the engine cranks, replace the ignition switch.

D. Unplug the circuit breaker. Jump between the two terminals. Depress the clutch pedal, place the blade engagement lever in the disengaged position, and turn the ignition switch to the "START" position. If the engine cranks, replace the circuit breaker.



E. If the engine fails to crank after testing the above components, use the 18 gauge wire to check continuity of the wire between the components. Replace the defective wire or the wire harness.



ENGINE SHUTS OFF

When The Blade Engagement Lever Is Engaged.

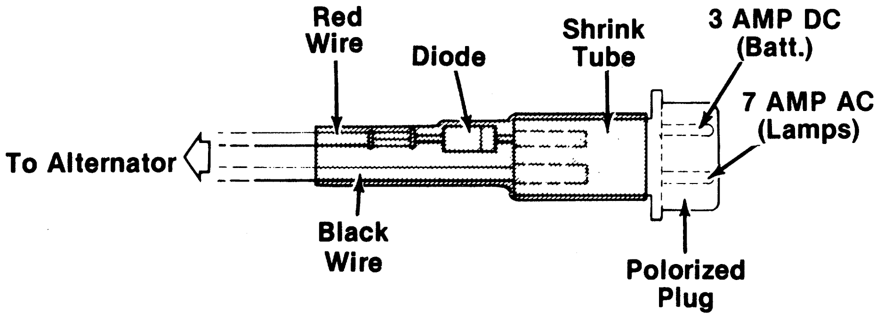
A. Check the position of the grass catcher on the rider. The grass catcher should touch the interlock switch when the catcher is attached to the rider.

B. Disconnect the brown wire from the interlock switch to the harness. If the engine keeps running with the blade engagement lever engaged, replace the interlock switch.

Circuit Breaker

The wire harness contains a circuit breaker that will shut off in the event of a short circuit or an overload on the electrical system. The circuit breaker will reset itself in approximately 20 seconds. If the circuit breaker continues to open and close, disconnect the negative (ground) wire from the battery. Correct the reason for the circuit breaker opening and closing before connecting the ground wire on the battery.

TROUBLE SHOOTING CHART FOR ELECTRIC START MODELS

TROUBLE	LOOK FOR	REMEDY
Engine will not crank	Battery installed incorrectly	The battery must be installed with the negative, identified at the terminal post by (Neg, N or -), grounded. The positive (Pos, P or +) attaches to the large cable from the solenoid. The small red wire from the fuse holder or circuit breaker is also attached to the positive terminal.
	Blow fuse or circuit breaker	Replace fuse with 7½ amp. fuse ¼ x 1¼" lg. Circuit breaker will reset itself when it cools off. Fuses or circuit breakers seldom open or fail without a reason. The problem must be corrected. Check for loose connections in the fuse holder. Replace fuse holder if necessary. A dead short may be in the cranking or charging circuit where the insulation may have rubbed through and exposed the bare wire. Replace the wire or repair with electrican's tape if the wire strands have not been damaged. Note: Look for a wire pinched between body panels, burned by the exhaust pipe or muffler or rubbed against a moving part.
	Battery is dead or weak	Use a hydrometer to check the condition of the battery. The Specific Gravity (s.g.) should be 1.265 at 80°F. (1.215 s.g. minimum needed for cranking engine). The reason for the battery failing must be determined. (1) Defective battery. Battery will not accept or hold a full charge. (2) Short circuit. Check for grounded wire. (3) Charging system not working, either engine alternator or trickle charger. **Trickle Charger.** Check with multimeter. Charger 725-0578—input 120 V A.C., no load output 13.5 V D.C. rated load current 1 amp. Charger 725-0507—input 120 V A.C., no load output 17.4 V D.C., rated load current 1/2 amp. **Alternator** (dual or single circuit) The charging system is an alternator located under the flywheel. It is unregulated and rated 3 amp. at 3600 r.p.m. A diode (rectifier) is located in the output lead just before the wire harness plug on the engine side.  Red Wire Diode Shrink Tube 3 AMP DC (Batt.) 7 AMP AC (Lamps) To Alternator Black Wire Polorized Plug The diode changes A.C. to D.C. to charge the battery. A bad diode can either fail to charge the battery or discharge the battery if the alternator is shorted as well as the diode. To test: (1) Disconnect charger lead from the battery (small red wire). (2) Connect 12 V small test lamp between the 3 amp. D.C. charge lead and the positive terminal of the battery. (3) With the engine off, the lamp should not light. If it does, the diode and possibly the alternator should be replaced. (4) Start the engine. The lamp should light. If it does not,the alternator (stator) or lead wire is bad and should be replaced.
	Mechanical failure. (Wires and switches)	The interlock system includes two mechanical activated switches which are wired in series in the circuit used to energize the starter solenoid. While testing the interlock system, you will make the mower temporarily unsafe by permitting the engine to be started with the blade and clutch engaged. WARNING: While testing, disengage the clutch, shut off the blade control, set the parking brake and place the gear shift lever in neutral. Attach a wire (minimum 18 gauge) to the positive terminal of the battery and touch the other end to the small terminal on the solenoid. **If the engine does not crank:** (1) There is a loose connection or poor ground. (2) The solenoid may be bad. The solenoid can be checked by using a heavy wire (#8 gauge minimum) and jumping between the two large terminals. If the engine cranks, the solenoid is bad. (3) If the engine does not crank when you jump the solenoid, have the starter motor tested by an authorized engine dealer. If the engine does crank, the problem is with one of the safety switches, ignition switch or the wire between the fuse holder (or circuit breaker) and the small terminal on the solenoid. Note: Look for a poor connection at the switches or a defective switch. Replace if necessary.
Engine cranks but will not start	Throttle or choke not in starting position	Check owner's guide for correct position for throttle control and choke (if separate control) for starting.

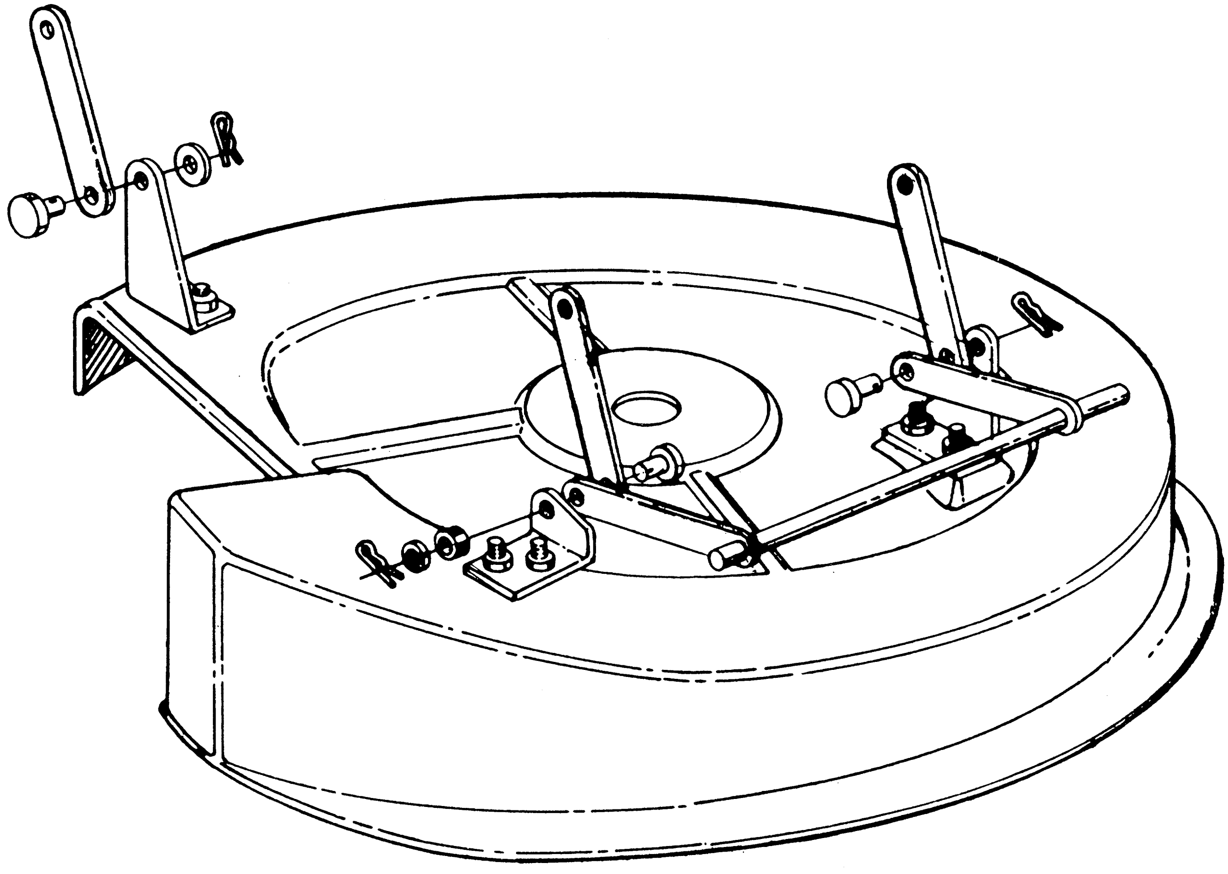
TROUBLE SHOOTING CHART FOR ELECTRIC START MODELS

TROUBLE	LOOK FOR	REMEDY
	No spark to spark plug	Spark plug lead disconnected. Connect lead. Hold spark plug lead away from engine block about 1/8″. Crank engine. There should be a spark. If not, have engine repaired at authorized engine service dealer. Faulty spark plug. To test, remove spark plug. Attach spark plug lead to spark plug. Ground the spark plug body against the engine block. Crank the engine. The spark plug should fire at the electrode. Replace if it does not.
	No fuel to the carburetor	Gasoline tank empty. Fill. Fuel valve shut off. Open valve. Valve is located either at the bottom of the fuel tank or on the carburetor. Fuel line plugged. Remove and clean.
	Air filter dirty	If the air cleaner is dirty, the engine may not start. Clean or replace as recommended by the engine manufacturer.
Engine smokes	Engine loses crankcase vacuum	Dipstick not seated or broken. Replace defective part. Engine breather defective. Replace.
Excessive vibration	Bent or damaged blade spindle	**Stop engine immediately.** Check all pulleys, blade spindles, blade adpaters, keys and bolts for tightness and damage. Tighten or replace any damaged parts.
	Bent blade	**Stop engine immediately.** Replace damaged blade. Only use original equipment blades.
Mower will not discharge grass or leaves uncut strips	Engine speed low	Throttle must be set between 3/4 and full throttle.
	Transmission selection	Use lower transmission speed. The slower your ground speed, the better the quality of cut.
	Blades short or dull	Sharpen or replace blades (uncut strip problem only).

DECK LINKAGE

NOTE

Refer to illustration below for proper deck link hook-up. If the deck is removed for any reason, use the illustration below for correct assembly.



PARTS INFORMATION

POWER EQUIPMENT PARTS AND SERVICE

Parts and service for all MTD manufactured power equipment are available through the authorized service firms listed below. All orders should specify the model number of your unit, part numbers, description of parts and the quantity of each part required.

BRIGGS AND STRATTON, TECUMSEH AND PEERLESS PARTS AND SERVICE

Briggs & Stratton, Tecumseh and Peerless parts and service should be handled by your nearest authorized engine service firm. Check the yellow pages of your telephone directory under the listing **Engines—Gasoline,** Briggs & Stratton or Tecumseh Lauson.

NOTE: If any parts are found to be missing or defective upon assembly of this unit, write to advise the factory so that immediate replacement can be made.

ALABAMA	**BIRMINGHAM**	Auto Electric & Carburetor Co.	2625 4th Ave. S.	35233
ARKANSAS	**FORT SMITH**	Mity Mite Motors, Inc.	4515 S. 16th St.	72901
	NORTH LITTLE ROCK	Sutton's Lawn Mower Shop	Rt. 4, Box 368	72117
CALIFORNIA	**PORTERVILLE**	Billious	75 North D Street	93257
	SAN FRANCISCO	J.W. Jewett Co.	981 Folsom St.	94107
COLORADO	**DENVER**	Spitzer Industrial Products Co.	Box 59, 43 W. 9th Ave.	80201
FLORIDA	**JACKSONVILLE**	Radco Distributors	4909 Victor St. Box 5459	32207
	OPA LOCKA	Small Eng. Dist.	2351 N.W. 147th St.	33054
GEORGIA	**EAST POINT**	East Point Cycle & Key	2834 Church St.	30344
ILLINOIS	**LYONS**	Keen Edge Co.	8615 Ogden Ave.	60534
INDIANA	**ELKHART**	Parts & Sales Inc.	2101 Industrial Pkwy.	46514
IOWA	**DUBUQUE**	Power Lawn & Garden Equip.	2551 J.F. Kennedy	52001
LOUISIANA	**NEW ORLEANS**	Suhren Engine Co.	8330 Earhart Blvd.	70118
MARYLAND	**TAKOMA PARK**	Center Supply Co.	6867 New Hampshire Ave.	20012
MASSACHUSETTS	**SPRINGFIELD**	Morton B. Collins Co.	300 Birnie Ave.	01107
MICHIGAN	**LANSING**	Lorenz Service Co.	2500 S. Pennsylvania	48910
	MOUNT CLEMENS	Power Equipment Dist.	36463 South Gratiot	48043
MINNESOTA	**HOPKINS**	Hance Distributing Inc.	420 Excelsior Ave. W.	55343
MISSISSIPPI	**BILOXI**	Biloxi Sales & Service, Inc.	506 Caillavet St.	39533
MISSOURI	**KANSAS CITY**	Automotive Equip. Service	3117 Holmes St.	64109
	ST. JOSEPH	Ross-Frazier Supply Co.	8th and Monterey	64503
	ST. LOUIS	Henzler, Inc.	2015 Lemay Ferry Road	63125
NEW JERSEY	**BELLMAWR**	Lawnmower Parts Inc.	717 Creek Rd.	08030
NEW YORK	**CARTHAGE**	Gamble Dist., Inc.	West End Ave.	13619
NORTH CAROLINA	**GOLDSBORO**	Smith Hardware Co.	515 N. George St.	27530
	GREENSBORO	Dixie Sales Company	335 N. Green	27402
OHIO	**CARROLL**	Stebe's Mid-State Mower Supply	Box 366, 71 High St.	43112
	CLEVELAND	Bleckrie, Inc.	7900 Lorain Ave.	44102
	WADSWORTH	National Central	687 Seville Rd.	44281
	YOUNGSTOWN	Burton Supply Co.	1301 Logan Ave. Box 929	44501
OKLAHOMA	**MUSKOGEE**	Victory Motors, Inc.	605 S. Cherokee	74401
	OKLAHOMA CITY	Forest Sales Inc.	6415 N. Olie	73116
OREGON	**PORTLAND**	Kenton Supply Co.	8216 N. Denver Ave.	97217
PENNSYLVANIA	**CHESTER**	Stull Equipment Corp.	742 W. Front St.	19013
	HARRISBURG	EECO Inc.	4021 N. 6th St.	17110
	PHILADELPHIA	Thompson Rubber Co.	5222-24 N. Fifth St.	19120
	PITTSBURGH	Bluemont Co.	11125 Frankstown Rd.	15235
	PUNXSUTAWNEY	Frank Roberts & Sons	R.D. 2	15767
TENNESSEE	**KNOXVILLE**	Master Repair Service	2000 Western Ave.	37921
	MEMPHIS	American Sales & Service, Inc.	3035-43 Bellbrook	38116
TEXAS	**DALLAS**	Marr Brothers, Inc.	423 E. Jefferson	75203
	FORT WORTH	Woodson Sales Corp.	1702 N. Sylvania	76111
	HOUSTON	Bullard Supply Co.	2409 Commerce St.	77003
	SAN ANTONIO	Catto & Putty, Inc.	414 Live Oak	78298
UTAH	**SALT LAKE CITY**	A-1 Engine & Mower Co.	437 E. 9th St.	84111
VERMONT	**BURLINGTON**	Vermont Hdwe. Co. Inc.	180 Flynn Ave.	05401
VIRGINIA	**RICHMOND**	RBI Corp.	963 Myers St.	23260
WASHINGTON	**SEATTLE**	Bailey's Inc.	1414 14th Ave.	98102
WEST VIRGINIA	**CHARLESTON**	Young's, Inc.	233 Virginia St., E.	25301
WISCONSIN	**MARSHFIELD**	Power Pac	301 E. 29th St.	54449

WARRANTY PARTS AND SERVICE POLICY

The purpose of warranty is to protect the customer from defects in workmanship and materials, defects which are NOT detected at the time of manufacture. It does not provide for the unlimited and unrestricted replacement of parts. Use and maintenance are the responsibility of the customer. The manufacturer cannot assume responsibility for conditions over which it has no control. Simply put, if it's the manufacturer's fault, it's the manufacturer's responsibility; if it's the customer's fault, it's the customer's responsibility.

CLAIMS AGAINST THE MANUFACTURER'S WARRANTY INCLUDES:

1. **Replacement of Missing Parts** on new equipment.
2. **Replacement of Defective Parts** within the warranty period.
3. **Repair of Defects** within the warranty period.

All claims MUST be substantiated with the following information:

1. **Model Number** of unit involved.
2. **Date** unit was purchased or first put into service.
3. **Date of failure.**
4. **Nature of failure.**

MTD PRODUCTS • 5965 GRAFTON ROAD • P.O. BOX 36900 • CLEVELAND, OHIO 44136